

2DB45 STATIONARY LOUVER

STANDARD CONSTRUCTION:

FRAME: 6063-T6 Extruded aluminum, 2" depth, 0.063" nominal wall thickness.

BLADE: 6063-T6 Extruded aluminum, 0.063" nominal wall thickness, blades positioned at 45 degree angle on 2.25" centers.

BIRDSCREEN: 1/2" X 0.063" Intercripped aluminum mesh in removable frame.

FINISH: Mill

MINIMUM SIZE: 12"W X 12"H

MAXIMUM SINGLE SECTION: 120"W X 84"H or 84"W X 120"H.
 Louvers exceeding max single section size will be built in multiple sections and require field assembly

OPTIONS:

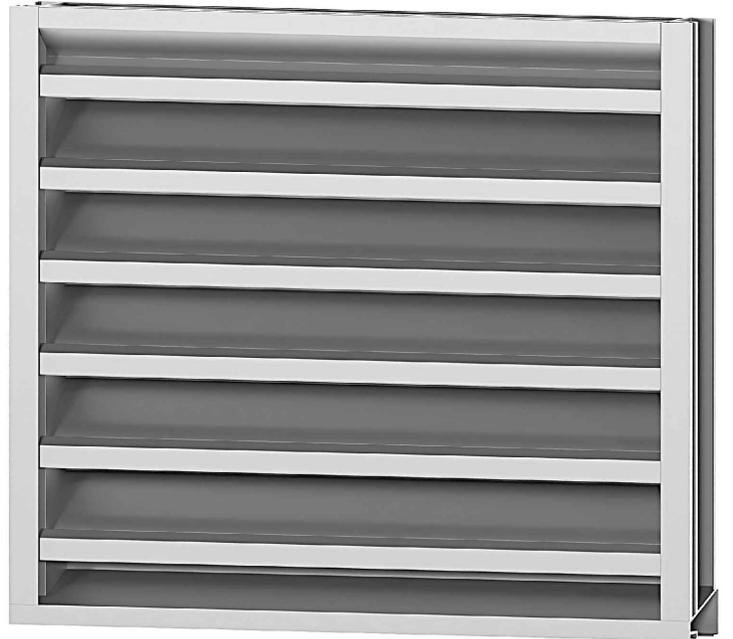
- Extended sill
- Insect screen and bird screen (Various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

PERFORMANCE:

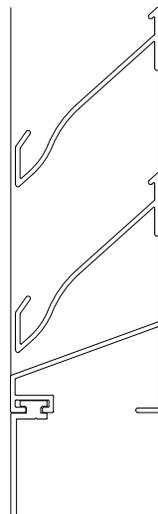
- 54.56% free area
- Beginning point of water penetration is 896 fpm

AVAILABLE FINISHES:

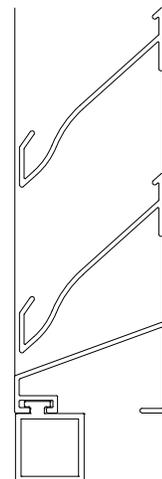
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration and air performance ratings for rectangular louvers only.



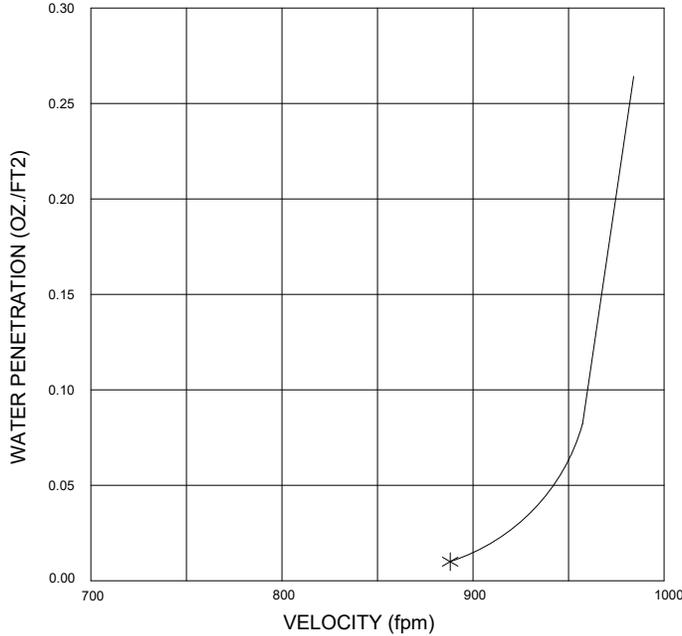
FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

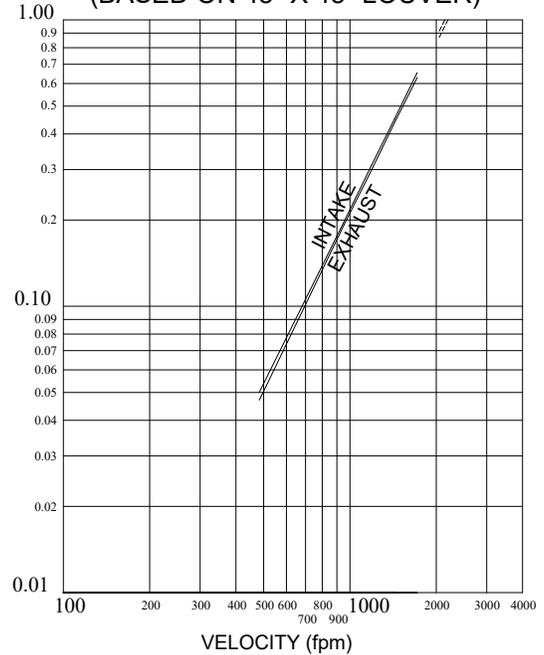
2DB45 STATIONARY LOUVER FREE AREA CHART

WATER PENETRATION (BASED ON 48" X 48" LOUVER)



* - beginning point of water penetration is 894 fpm

PRESSURE DROP (BASED ON 48" X 48" LOUVER)



WATER PENETRATION

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

<u> </u> CFM /	<u> </u> FPM =	<u> </u> SQFT
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		



AIR PERFORMANCE, LLC. CERTIFIES THAT THE PRODUCT LINE SHOWN HEREIN IS LICENSED TO BEAR THE AMCA SEAL. THE RATINGS SHOWN ARE BASED ON TESTS AND PROCEDURES PERFORMED IN ACCORDANCE WITH AMCA PUBLICATION 511 AND COMPLY WITH THE REQUIREMENTS OF THE AMCA CERTIFIED RATINGS PROGRAM. THE AMCA CERTIFIED RATING SEAL APPLIES TO WATER PENETRATION AND AIR PERFORMANCE RATINGS FOR RECTANGULAR LOUVERS ONLY.

2DB45 FREE AREA CHART LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.38	0.60	0.83	1.05	1.27	1.49	1.72	1.94	2.16	2.38	2.61	2.83	3.05	3.28	3.50	3.72	3.94	4.14	4.39
18	0.63	1.00	1.37	1.75	2.12	2.49	2.86	3.23	3.60	3.97	4.34	4.71	5.08	5.45	5.82	6.19	6.56	6.94	7.31
24	0.87	1.38	1.89	2.40	2.92	3.43	3.94	4.45	4.96	5.47	5.98	6.49	7.00	7.51	8.02	8.53	9.05	9.56	10.07
30	1.16	1.84	2.51	3.19	3.87	4.55	5.22	5.90	6.58	7.26	7.93	8.61	9.29	9.97	10.65	11.32	12.00	12.68	13.36
36	1.41	2.24	3.06	3.89	4.71	5.54	6.36	7.19	8.02	8.84	9.67	10.49	11.32	12.14	12.97	13.80	14.62	15.45	16.27
42	1.65	2.62	3.58	4.55	5.51	6.48	7.44	8.41	9.38	10.34	11.31	12.27	13.24	14.21	15.17	16.14	17.10	18.07	19.03
48	1.94	3.07	4.20	5.33	6.47	7.60	8.73	9.86	11.00	12.13	13.26	14.39	15.53	16.66	17.79	18.93	20.06	21.19	22.32
54	2.19	3.47	4.75	6.03	7.31	8.59	9.87	11.15	12.43	13.71	14.99	16.28	17.56	18.84	20.12	21.40	22.68	23.96	25.25
60	2.43	3.85	5.27	6.69	8.11	9.53	10.95	12.37	13.79	15.21	16.64	18.06	19.48	20.90	22.32	23.74	25.16	26.58	28.00
66	2.71	4.30	5.89	7.48	9.06	10.65	12.24	13.83	15.41	17.00	18.59	20.18	21.76	23.35	24.94	26.53	28.12	29.70	31.29
72	2.97	4.70	6.44	8.17	9.91	11.64	13.38	15.12	16.85	18.59	20.32	22.06	23.79	25.53	27.27	29.00	30.74	32.47	34.21
78	3.20	5.08	6.96	8.83	10.71	12.58	14.46	16.34	18.21	20.09	21.96	23.84	25.71	27.59	29.47	31.34	33.22	35.09	36.97
84	3.49	5.53	7.58	9.62	11.66	13.70	15.75	17.79	19.83	21.87	23.92	25.96	28.00	30.04	32.09	34.13	36.17	38.22	40.26
90	3.74	5.93	8.12	10.31	12.51	14.70	16.89	19.08	21.27	23.46	25.65	27.84	30.03	32.22	34.41	36.60	38.79	40.98	43.18
96	3.98	6.31	8.64	10.97	13.30	15.64	17.97	20.30	22.63	24.96	27.29	29.62	31.95	34.28	36.61	38.94	41.27	43.61	45.94
102	4.27	6.76	9.26	11.76	14.26	16.76	19.25	21.75	24.25	26.75	29.24	31.74	34.24	36.74	39.23	41.73	44.23	46.73	49.23
108	4.52	7.17	9.81	12.46	15.10	17.75	20.39	23.04	25.69	28.33	30.98	33.62	36.27	38.91	41.56	44.21	46.85	49.50	52.14
114	4.76	7.54	10.33	13.12	15.90	18.69	21.47	24.26	27.05	29.83	32.62	35.40	38.19	40.97	43.76	46.55	49.33	52.12	54.90
120	5.04	8.00	10.95	13.90	16.86	19.81	22.76	25.71	28.67	31.62	34.57	37.52	40.48	43.43	46.38	49.33	52.29	55.24	58.19

2HP45 STATIONARY LOUVER

STANDARD CONSTRUCTION:

FRAME: 6063-T6 Extruded aluminum, 2" depth, 0.063" nominal wall thickness.

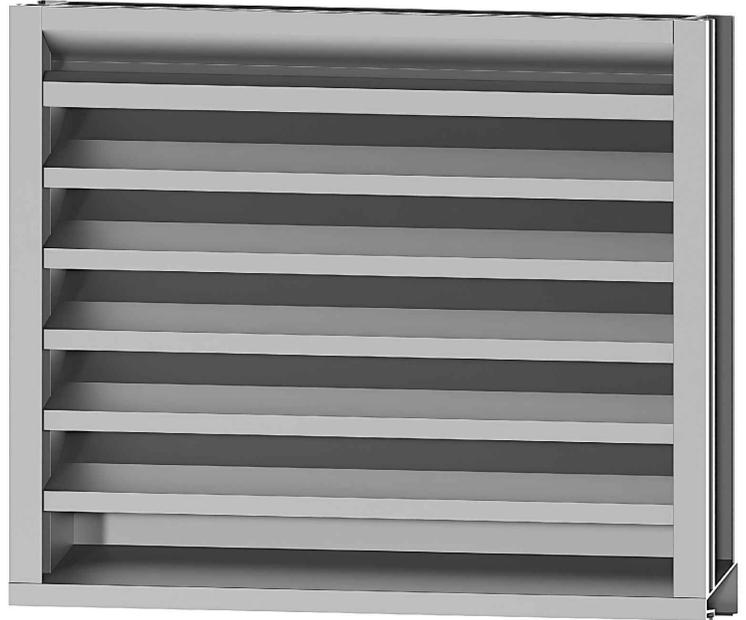
BLADE: 6063-T6 Extruded aluminum, 0.063" nominal wall thickness, blades positioned at 45 degree angle on 1.75" centers.

BIRDSCREEN: 1/2" X 0.063" Intercrimped aluminum mesh in removable frame.

FINISH: Mill

MINIMUM SIZE: 12"W X 12"H

MAXIMUM SINGLE SECTION: 120"W x 84"H or 84"W x 120"H.
 Louvers exceeding max single section size will be built in multiple sections and require field assembly



OPTIONS:

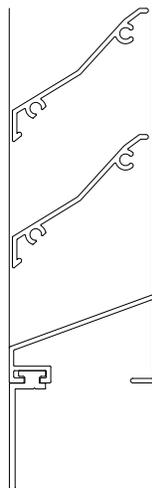
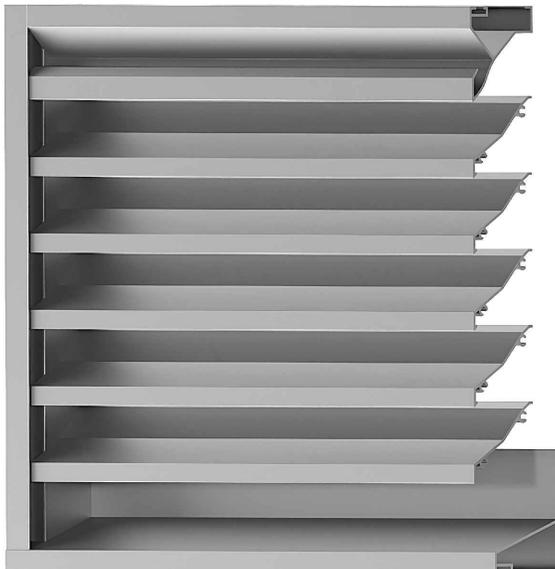
- Extended sill
- Insect screen and bird screen (Various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

PERFORMANCE:

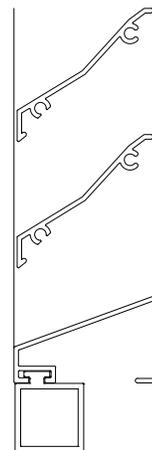
-57.56% Free area

AVAILABLE FINISH

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (Other glazing options available)

2HP45 STATIONARY LOUVER FREE AREA CHART

		LOUVER WIDTH (IN)																		
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
LOUVER HEIGHT (IN)	12	0.41	0.64	0.88	1.12	1.36	1.60	1.83	2.07	2.31	2.55	2.79	3.02	3.26	3.50	3.74	3.98	4.21	4.45	4.69
	18	0.67	1.07	1.46	1.85	2.25	2.64	3.03	3.43	3.82	4.22	4.61	5.00	5.40	5.79	6.18	6.58	6.97	7.36	7.76
	24	0.96	1.52	2.08	2.64	3.20	3.76	4.32	4.88	5.44	6.01	6.57	7.13	7.69	8.25	8.81	9.37	9.93	10.49	11.05
	30	1.22	1.93	2.65	3.36	4.08	4.79	5.51	6.22	6.93	7.65	8.36	9.08	9.79	10.51	11.22	11.93	12.65	13.36	14.08
	36	1.50	2.38	3.26	4.13	5.01	5.89	6.77	7.64	8.52	9.40	10.28	11.16	12.03	12.91	13.79	14.67	15.54	16.42	17.30
	42	1.89	3.00	4.11	5.22	6.33	7.43	8.54	9.65	10.76	11.87	12.97	14.08	15.19	16.30	17.41	18.51	19.62	20.73	21.84
	48	2.04	3.24	4.43	5.63	6.82	8.02	9.21	10.41	11.61	12.80	14.00	15.19	16.39	17.58	18.78	19.97	21.17	22.36	23.56
	54	2.32	3.68	5.04	6.39	7.75	9.11	10.47	11.83	13.18	14.54	15.90	17.26	18.61	19.97	21.33	22.69	24.05	25.40	26.76
	60	2.59	4.10	5.61	7.13	8.64	10.15	11.67	13.18	14.69	16.21	17.72	19.24	20.75	22.26	23.78	25.29	26.80	28.32	29.83
	66	2.87	4.55	6.23	7.90	9.58	11.26	12.94	14.62	16.30	17.98	19.66	21.34	23.02	24.69	26.37	28.05	29.73	31.41	33.09
	72	3.13	4.97	6.80	8.64	10.47	12.30	14.14	15.97	17.81	19.64	21.48	23.31	25.14	26.98	28.81	30.65	32.48	34.32	36.15
	78	3.41	5.41	7.41	9.41	11.41	13.40	15.40	17.40	19.40	21.40	23.40	25.39	27.39	29.39	31.39	33.39	35.38	37.38	39.38
	84	3.69	5.84	8.00	10.16	12.32	14.48	16.64	18.79	20.95	23.11	25.27	27.43	29.58	31.74	33.90	36.06	38.22	40.37	42.53
	90	3.96	6.27	8.59	10.90	13.22	15.53	17.85	20.16	22.48	24.79	27.11	29.43	31.74	34.06	36.37	38.69	41.00	43.32	45.63
	96	4.23	6.71	9.19	11.67	14.14	16.62	19.10	21.58	24.06	26.53	29.01	31.49	33.97	36.45	38.82	41.40	43.88	46.36	48.84
	102	4.50	7.13	9.77	12.40	15.03	17.67	20.30	22.93	25.57	28.20	30.84	33.47	36.10	38.74	41.37	44.00	46.64	49.27	51.90
	108	4.78	7.58	10.38	13.18	15.98	18.78	21.57	24.37	27.17	29.97	32.77	35.57	38.37	41.17	43.97	46.77	49.56	52.36	55.16
114	5.05	8.00	10.96	13.91	16.86	19.82	22.77	25.73	28.68	31.64	34.59	37.54	40.50	43.45	46.41	49.36	52.31	55.27	58.22	
120	5.33	8.45	11.56	14.68	17.80	20.92	24.04	27.15	30.27	33.39	36.51	39.63	42.75	45.86	48.98	52.10	55.22	58.34	61.46	

APD2 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 2.16" depth, .060" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.060" nominal wall thickness, blades positioned at 37 degree angle on 1.470" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

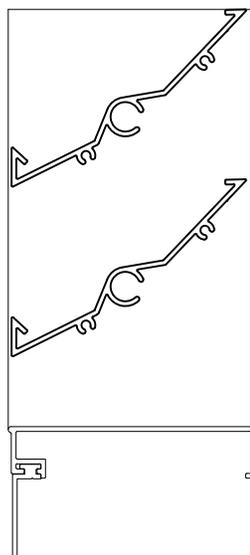
- 54.13% Free area
- Beginning point of water penetration Lies above 805 fpm

Available Finishes:

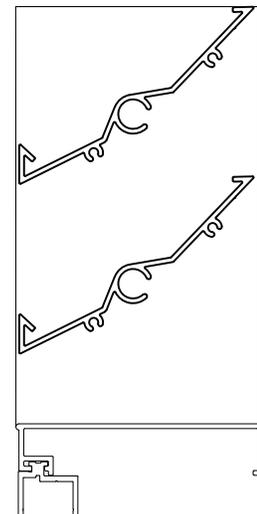
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration and air performance ratings for rectangular louvers only.



FLANGE ADAPTER OPTION



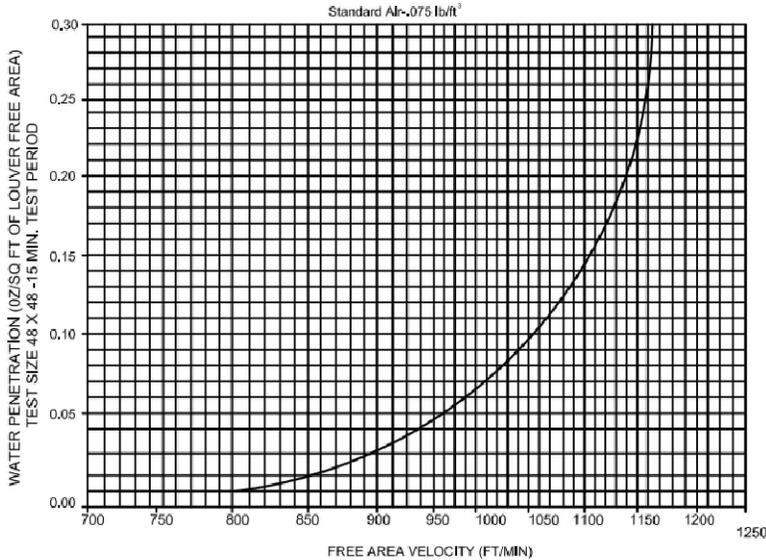
GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APD2 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA defines the beginning point of water penetration as the free area velocity at which .01 ounces or less of water per square foot of louver free area is measured to pass through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides test data for the comparison of louver designs as to efficiency in resisting the penetration of rainfall under specific laboratory test conditions



* Beginning point of WATER PENETRATION lies above

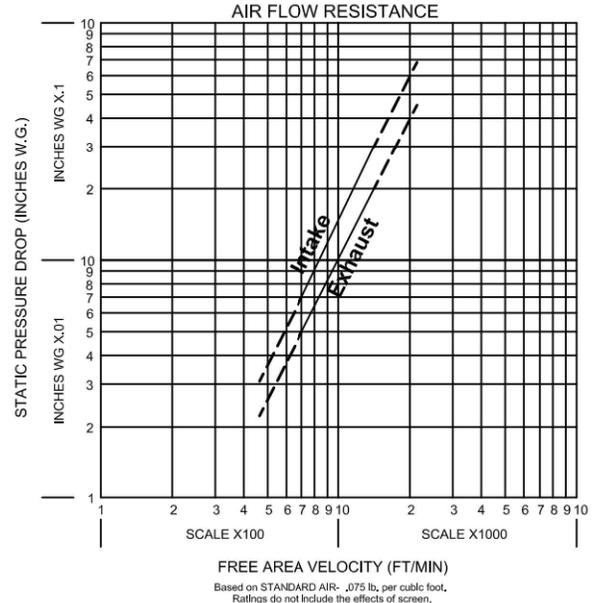
805 fpm

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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



_____ CFM / _____ FPM = _____ SQFT

AIR FLOW VOLUME FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

FREE AREA CHART (SQUARE FEET)

Louver Height	Louver Width In Inches																Louver Height			
Inches	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	Inches
12	0.33	0.64	0.74	0.96	1.16	1.36	1.67	1.77	1.98	2.18	2.39	2.69	2.80	3.00	3.21	3.41	3.62	3.82	4.03	12
18	0.57	0.92	1.27	1.63	1.98	2.33	2.68	3.03	3.38	3.74	4.09	4.44	4.79	5.14	5.49	5.85	6.20	6.55	6.90	18
24	0.81	1.31	1.81	2.30	2.80	3.30	3.80	4.30	4.79	5.29	5.79	6.29	6.79	7.28	7.78	8.28	8.78	9.28	9.77	24
30	1.11	1.79	2.47	3.16	3.83	4.52	5.20	5.88	6.56	7.24	7.93	8.61	9.29	9.97	10.65	11.33	12.02	12.70	13.38	30
36	1.35	2.19	3.02	3.85	4.69	5.52	6.36	7.19	8.02	8.85	9.69	10.52	11.35	12.19	13.02	13.85	14.69	15.52	16.36	36
42	1.60	2.58	3.57	4.55	5.54	6.52	7.51	8.49	9.48	10.46	11.45	12.43	13.42	14.40	15.39	16.37	17.36	18.34	19.33	42
48	1.85	2.98	4.12	5.26	6.39	7.53	8.66	9.80	10.94	12.07	13.21	14.35	15.48	16.62	17.75	18.89	20.03	21.16	22.30	48
54	2.09	3.38	4.67	5.96	7.24	8.53	9.82	11.11	12.39	13.68	14.97	16.26	17.55	18.83	20.12	21.41	22.70	23.98	25.27	54
60	2.34	3.78	5.22	6.66	8.10	9.54	10.97	12.41	13.85	15.29	16.73	18.17	19.61	21.05	22.49	23.93	25.37	26.81	28.25	60
66	2.53	4.09	5.65	7.21	8.77	10.33	11.89	13.45	15.00	16.56	18.12	19.68	21.24	22.80	24.36	25.92	27.48	29.03	30.59	66
72	2.77	4.48	6.18	7.89	9.59	11.30	13.00	14.71	16.41	18.12	19.82	21.53	23.23	24.94	26.64	28.35	30.06	31.76	33.47	72
78	3.01	4.86	6.71	8.56	10.42	12.27	14.12	15.97	17.82	19.67	21.52	23.38	25.23	27.08	28.93	30.78	32.63	34.49	36.34	78
84	3.26	5.24	7.24	9.24	11.24	13.24	15.23	17.23	19.23	21.23	23.23	25.22	27.22	29.22	31.22	33.22	35.21	37.21	39.21	84
90	3.48	5.63	7.77	9.92	12.06	14.21	16.35	18.49	20.64	22.78	24.93	27.07	29.22	31.36	33.50	35.65	37.79	39.94	42.08	90
96	3.72	6.01	8.30	10.59	12.88	15.18	17.47	19.76	22.05	24.34	26.63	28.92	31.21	33.50	35.79	38.08	40.37	42.66	44.95	96
102	4.02	6.50	8.97	11.45	13.92	16.40	18.87	21.35	23.82	26.30	28.77	31.25	33.72	36.20	38.67	41.15	43.62	46.10	48.57	102
108	4.27	6.89	9.52	12.16	14.77	17.40	20.03	22.66	25.28	27.91	30.53	33.16	35.79	38.41	41.04	43.67	46.29	48.92	51.55	108
114	4.51	7.29	10.07	12.86	15.63	18.41	21.18	23.96	26.74	29.52	32.30	35.07	37.85	40.63	43.41	46.19	48.96	51.74	54.52	114
120	4.76	7.89	10.82	13.86	16.48	19.41	22.34	25.27	28.20	31.13	34.06	36.99	39.92	42.85	45.78	48.71	51.63	54.56	57.49	120

APEL-2 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 2.16" depth, .060" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.060" nominal wall thickness, blades positioned at 37 degree angle on 1.47" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

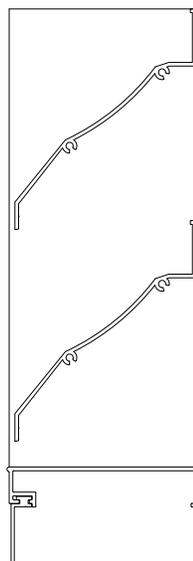
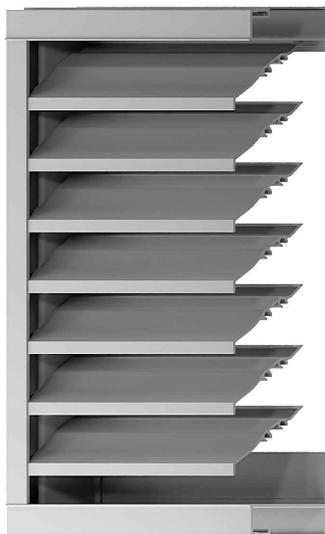
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

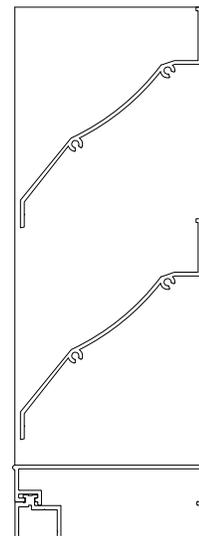
- 55.13% Free area
- Beginning point of water penetration Lies at 524 fpm

Available Finishes:

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



FLANGE ADAPTER OPTION



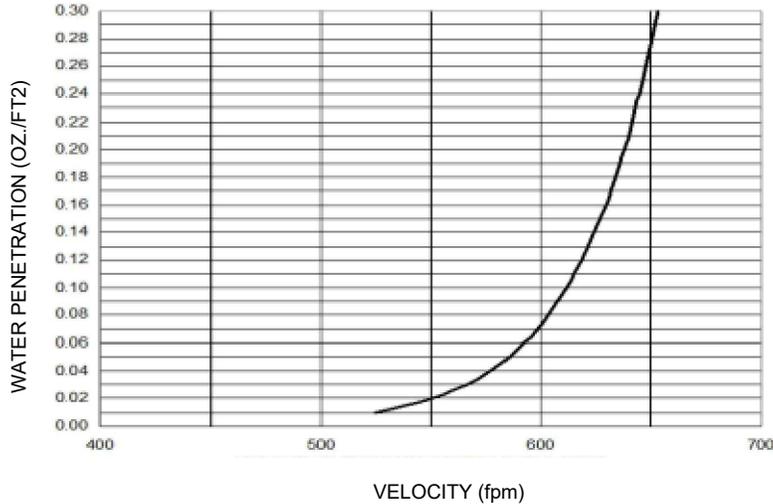
GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APEL2 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

THE BEGINNING POINT OF WATER PENETRATION IS DEFINED AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

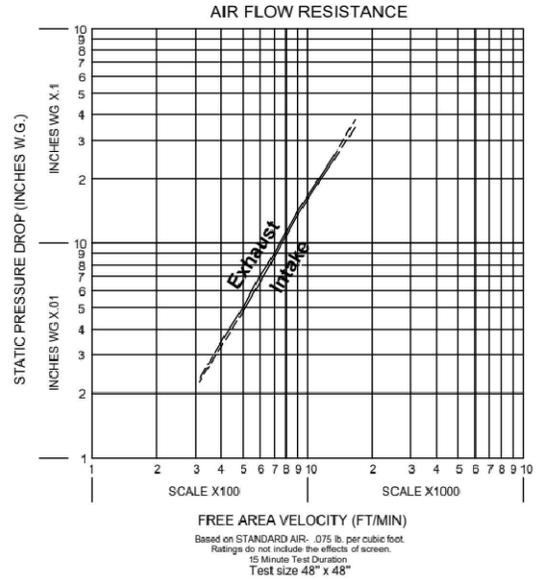


* Beginning point of WATER PENETRATION lies above

524 fpm

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



$$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} \div \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

Louver Height Inches	Width - Inches																		Louver Height Inches		
	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108		114	120
6	0.03	0.08	0.13	0.18	0.23	0.27	0.32	0.37	0.42	0.47	0.52	0.57	0.62	0.67	0.72	0.77	0.82	0.86	0.91	0.96	12
12	0.07	0.20	0.33	0.46	0.59	0.72	0.84	0.97	1.10	1.23	1.36	1.48	1.61	1.74	1.87	2.00	2.13	2.25	2.38	2.51	6
18	0.19	0.52	0.85	1.19	1.52	1.85	2.18	2.51	2.84	3.17	3.50	3.83	4.16	4.49	4.82	5.16	5.49	5.82	6.15	6.48	18
24	0.27	0.72	1.17	1.63	2.08	2.54	2.99	3.45	3.90	4.35	4.81	5.26	5.72	6.17	6.63	7.08	7.53	7.99	8.44	8.90	24
30	0.35	0.94	1.54	2.13	2.73	3.32	3.92	4.52	5.11	5.71	6.30	6.90	7.49	8.09	8.68	9.28	9.87	10.47	11.06	11.66	30
36	0.47	1.26	2.06	2.86	3.66	4.46	5.25	6.05	6.85	7.65	8.44	9.24	10.04	10.84	11.64	12.43	13.23	14.03	14.83	15.63	36
42	0.58	1.58	2.58	3.58	4.59	5.59	6.59	7.59	8.59	9.59	10.59	11.59	12.59	13.59	14.59	15.59	16.59	17.59	18.59	19.59	42
48	0.68	1.84	3.01	4.17	5.33	6.50	7.66	8.82	9.99	11.15	12.31	13.48	14.64	15.80	16.97	18.13	19.29	20.46	21.62	22.78	48
54	0.77	2.10	3.43	4.75	6.08	7.41	8.73	10.06	11.39	12.71	14.04	15.36	16.69	18.02	19.34	20.67	22.00	23.32	24.65	25.98	54
60	0.87	2.36	3.85	5.34	6.83	8.32	9.81	11.29	12.78	14.27	15.76	17.25	18.74	20.23	21.72	23.21	24.70	26.19	27.68	29.17	60
66	0.92	2.49	4.06	5.64	7.21	8.78	10.36	11.93	13.51	15.08	16.65	18.23	19.80	21.37	22.95	24.52	26.09	27.67	29.24	30.81	66
72	1.01	2.75	4.49	6.22	7.96	9.69	11.43	13.17	14.90	16.64	18.38	20.11	21.85	23.59	25.32	27.06	28.80	30.53	32.27	34.00	72
78	1.11	3.01	4.91	6.81	8.71	10.61	12.50	14.40	16.30	18.20	20.10	22.00	23.90	25.80	27.70	29.60	31.50	33.40	35.30	37.20	78
84	1.20	3.27	5.33	7.39	9.45	11.51	13.58	15.64	17.70	19.76	21.83	23.89	25.95	28.01	30.08	32.14	34.20	36.26	38.33	40.39	84
90	1.30	3.52	5.75	7.97	10.20	12.42	14.65	16.87	19.10	21.32	23.55	25.77	27.99	30.22	32.44	34.67	36.89	39.12	41.34	43.57	90
96	1.39	3.78	6.17	8.56	10.95	13.34	15.73	18.12	20.51	22.90	25.28	27.67	30.06	32.45	34.84	37.23	39.62	42.01	44.40	46.79	96
102	1.45	3.94	6.43	8.92	11.41	13.89	16.38	18.87	21.36	23.85	26.34	28.83	31.31	33.80	36.29	38.78	41.27	43.76	46.24	48.73	102
108	1.57	4.26	6.95	9.65	12.34	15.03	17.72	20.42	23.11	25.80	28.49	31.18	33.88	36.57	39.26	41.95	44.64	47.34	50.03	52.72	108
114	1.69	4.58	7.48	10.37	13.27	16.16	19.06	21.95	24.85	27.74	30.63	33.53	36.42	39.32	42.21	45.11	48.00	50.90	53.79	56.69	114
120	1.81	4.90	8.00	11.10	14.20	17.29	20.39	23.49	26.58	29.68	32.78	35.87	38.97	42.07	45.17	48.26	51.36	54.46	57.55	60.65	120

APXS2 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 2" depth, 0.063" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.063" nominal wall thickness, blades placed on 0.938" centers.

Birdscreen: 1/2" x 0.063" intercrimped aluminum mesh in removable frame.

Finish: mill

Minimum size: 12"w x 12"h

maximum single section: 120"w x 84"w x 120"h. Louvers exceeding max single section size will be built in multiple sections and require field assembly

OPTIONS:

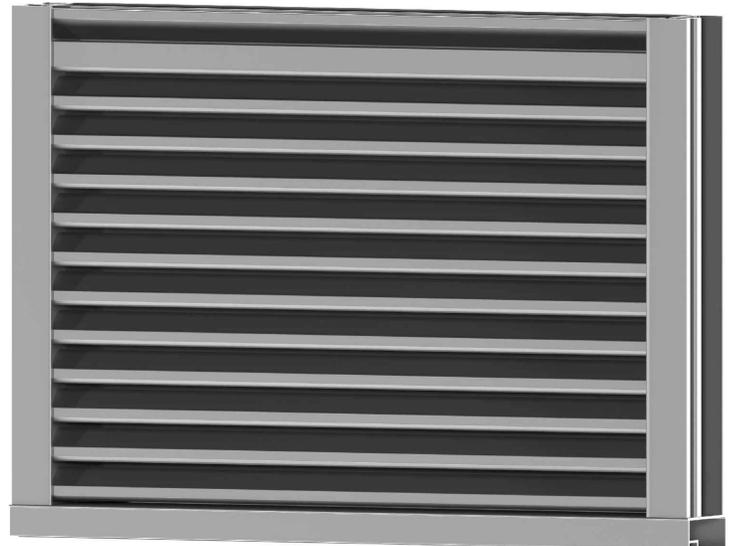
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

PERFORMANCE:

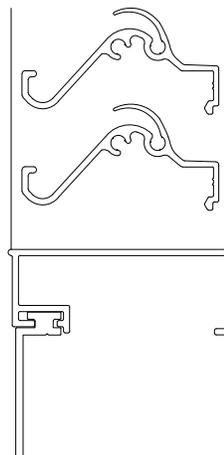
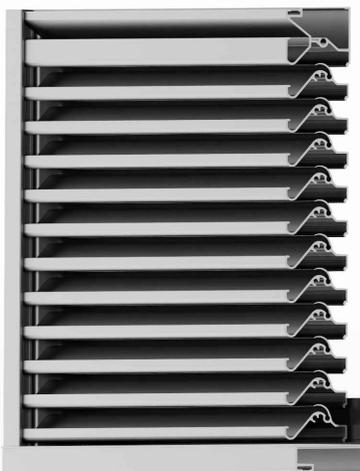
- 40.94% free area
- Beginning point of water penetration is 1195 fpm
- wind driven rain

AVAILABLE FINISHES:

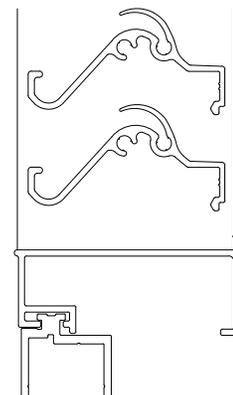
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration, air performance, and wind driven rain ratings for rectangular louvers only.

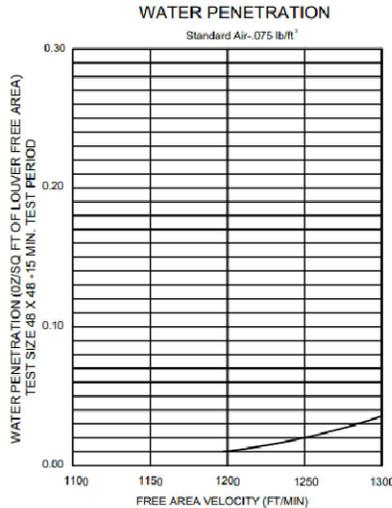


FLANGE ADAPTER OPTION

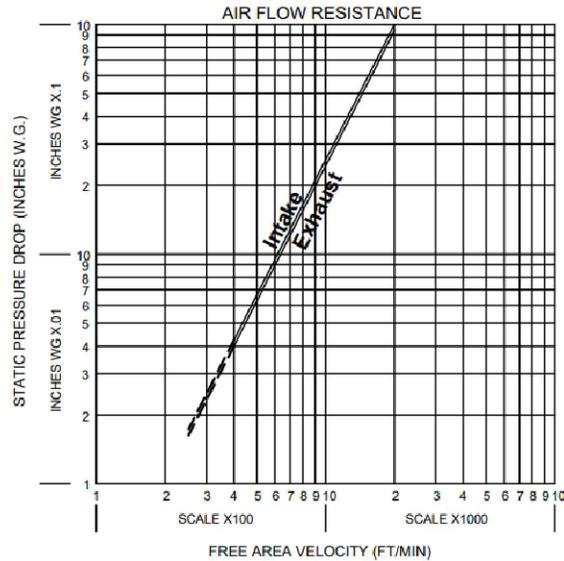


GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APXS2 LOUVER PERFORMANCE DATA



Beginning point of WATER PENETRATION
is
1195 fpm
free area velocity at .01 oz. of water penetration



Based on STANDARD AIR-.075 lb. per cubic foot.
Ratings do not include the effects of screen.
Test size 48" x 48"

Louver Height Inches	Width - Inches																Louver Height Inches			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102		108	114	120
12	0.24	0.43	0.59	0.76	0.92	1.09	1.25	1.42	1.58	1.74	1.91	2.07	2.24	2.40	2.56	2.73	2.89	3.06	3.22	12
18	0.46	0.75	1.03	1.31	1.60	1.88	2.16	2.45	2.73	3.02	3.30	3.58	3.87	4.15	4.44	4.72	5.00	5.29	5.57	18
24	0.65	1.05	1.45	1.85	2.26	2.66	3.06	3.46	3.86	4.26	4.66	5.06	5.46	5.87	6.27	6.67	7.07	7.47	7.87	24
30	0.84	1.35	1.87	2.38	2.90	3.42	3.93	4.45	4.96	5.48	5.99	6.51	7.03	7.54	8.06	8.57	9.09	9.60	10.12	30
36	1.04	1.67	2.31	2.95	3.59	4.23	4.86	5.50	6.14	6.78	7.42	8.06	8.69	9.33	9.97	10.61	11.25	11.88	12.52	36
42	1.23	1.99	2.75	3.50	4.26	5.02	5.78	6.54	7.29	8.05	8.81	9.57	10.33	11.08	11.84	12.60	13.36	14.11	14.87	42
48	1.40	2.26	3.12	3.97	4.83	5.69	6.55	7.41	8.27	9.13	9.99	10.85	11.71	12.57	13.43	14.29	15.15	16.01	16.87	48
54	1.61	2.60	3.59	4.58	5.57	6.56	7.55	8.54	9.52	10.51	11.50	12.49	13.48	14.47	15.46	16.45	17.44	18.43	19.42	54
60	1.78	2.87	3.96	5.06	6.15	7.25	8.34	9.43	10.53	11.62	12.71	13.81	14.90	16.00	17.09	18.18	19.28	20.37	21.46	60
66	2.00	3.23	4.47	5.70	6.93	8.16	9.39	10.62	11.86	13.09	14.32	15.55	16.78	18.01	19.25	20.48	21.71	22.94	24.17	66
72	2.16	3.49	4.82	6.15	7.49	8.82	10.15	11.48	12.81	14.14	15.47	16.80	18.13	19.46	20.79	22.12	23.45	24.78	26.12	72
78	2.38	3.84	5.31	6.77	8.23	9.70	11.16	12.62	14.09	15.55	17.01	18.48	19.94	21.40	22.87	24.33	25.79	27.26	28.72	78
84	2.55	4.12	5.68	7.25	8.82	10.39	11.95	13.52	15.09	16.66	18.22	19.79	21.36	22.93	24.50	26.06	27.63	29.20	30.77	84
90	2.77	4.48	6.18	7.89	9.59	11.30	13.01	14.71	16.42	18.12	19.83	21.53	23.24							
96	2.93	4.74	6.54	8.35	10.15	11.96	13.76	15.57	17.37	19.17	20.98	22.78	24.59							
102	3.15	5.09	7.02	8.96	10.90	12.84	14.77	16.71	18.65	20.59	22.52	24.46	26.40							
108	3.32	5.36	7.40	9.44	11.48	13.53	15.57	17.61	19.65	21.69	23.73	25.78	27.82							
114	3.54	5.72	7.90	10.08	12.26	14.44	16.62	18.80	20.98	23.16	25.34	27.52	29.70							
120	3.70	5.98	8.26	10.54	12.82	15.10	17.37	19.65	21.93	24.21	26.49	28.77	31.05							



WIND-DRIVEN RAIN

75 mm/h (3 in/h) Rainfall & 13 m/s (29 mph) Wind Velocity

Core Velocity fpm (m/s)	Ventilation Airflow cfm (m ³ /s)	Free Area Velocity fpm (m/s)	Effectiveness	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	98.1	B
99 (0.5)	1066 (0.50)	194 (1.0)	95.2	B
196 (1.0)	2110 (1.00)	384 (1.9)	92.4	C
291 (1.5)	3132 (1.48)	570 (2.9)	89.8	C
395 (2.0)	4252 (2.01)	773 (3.9)	85.1	C

Test size 1m x 1m (39"x39") core
41-5/8"w x 41-13/16"h Nominal (1.057m x 1.062m)

Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

Wind Velocity (mph)	Class	
	Intake	Exhaust
29	3	3
50	3	3

* Discharge loss coefficient is the theoretical air flow of an opening divided by the actual flow rate of a louver the same size.

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and below

(the higher the coefficient, the less resistance to airflow.)

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WDV-75 STATIONARY LOUVER

AMCA 540 & 550 Listed

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 3" depth, 0.081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.125 nominal wall thickness, blades positioned vertically on .813" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 60"W X 96"H . Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

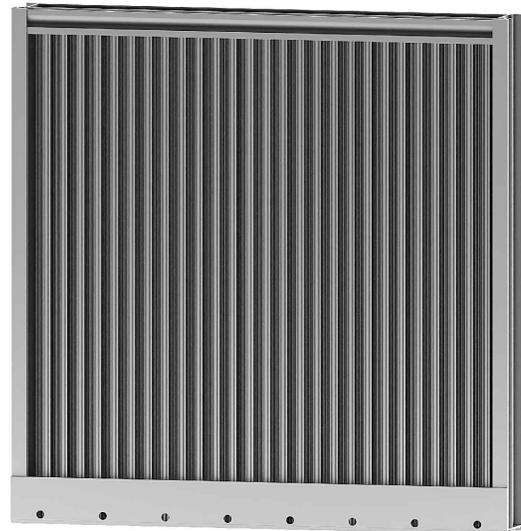
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

- 47.94% Free area
- Beginning point of water penetration lies above 1250 fpm
- "A" rating Water Penetration

Available Finishes:

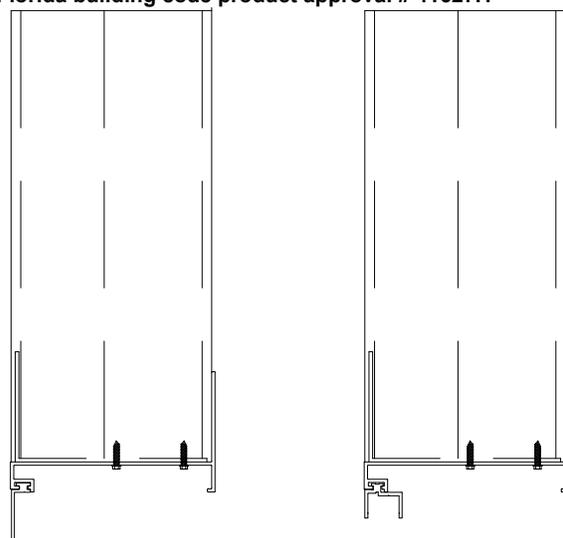
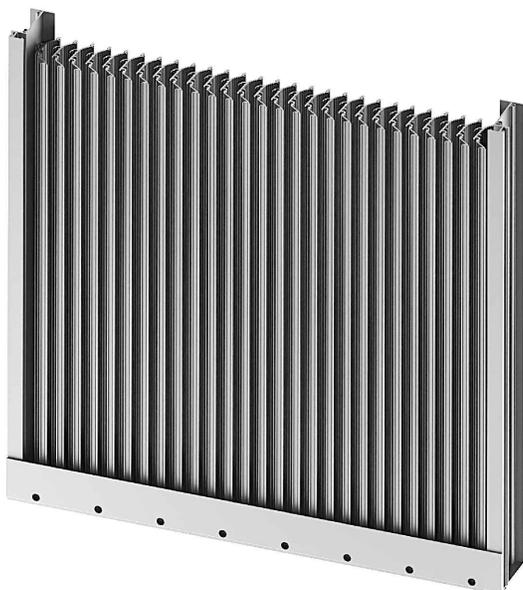
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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Miami-Dade County, Florida notice of acceptance #: 23-0726.12
Florida building code product approval # 41627.1



FLANGE ADAPTER OPTION GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

WDV-75 LOUVER PERFORMANCE DATA

Test size 1m x 1m (39" w x 39" h) core
 47.5" w x 47.5" h Nominal (1.21m x 1.21m)

Wind Driven Rain Penetration Classes	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

* Discharge Loss Intake		
Wind Velocity (mph)	Class	
	Intake	Exhaust
29	3	2
50	3	2

* Discharge loss coefficient is the theoretical air flow of an opening divided by the actual flow rate of a louver of the same size.

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	.0199 and below

(the higher the coefficient, the less resistance to airflow.)

75 mm/h (3in/h) Rainfall & 13 m/s (29 mph) Wind Velocity		
Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	*Water Penetration Classification
5.04 (993)	100	A

*AMCA Classes for maximum allowable water penetrations

200 mm/h (8in/h) Rainfall & 32 m/s (50 mph) Wind Velocity		
Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	*Water Penetration Classification
5.04 (993)	100	A

*AMCA Classes for maximum allowable water penetrations

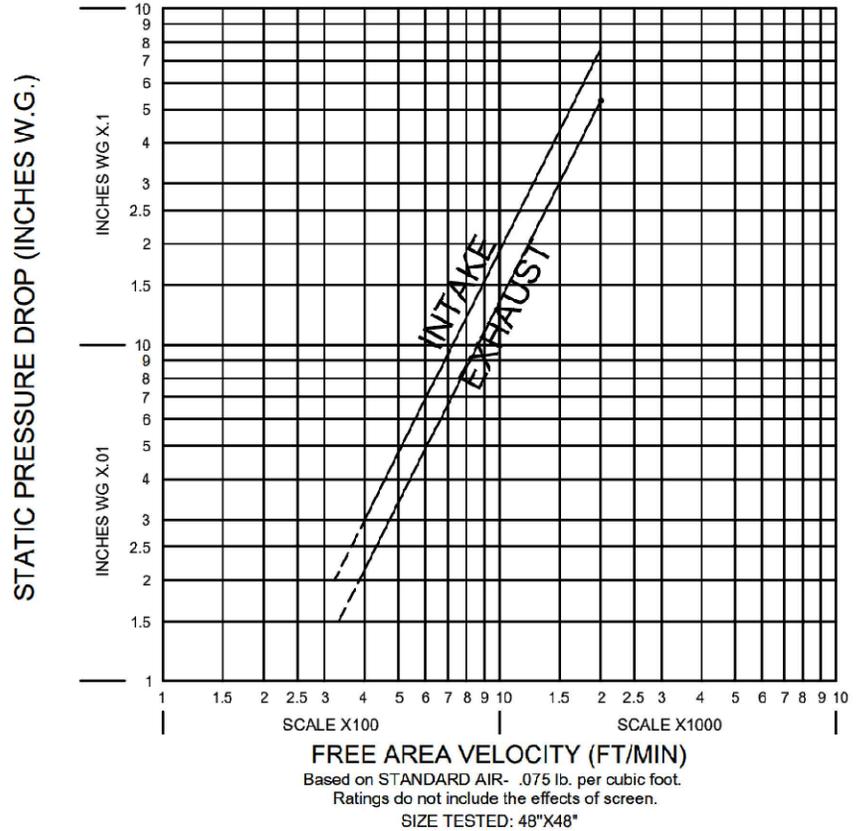
$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} / \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

PRESSURE DROP
 (BASED ON 48" X 48" LOUVER)

Air Flow Resistance



Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration, air performance, and wind driven rain ratings for rectangular louvers only.



Louver Height Inches	WDV-75 FREE AREA IN SQ. FT									Louver Height Inches
	Width - Inches									
	12	18	24	30	36	42	48	54	60	
12	0.29	0.47	0.68	0.87	1.07	1.26	1.44	1.65	1.83	12
18	0.49	0.81	1.16	1.47	1.83	2.14	2.45	2.80	3.12	18
24	0.69	1.14	1.64	2.08	2.58	3.02	3.46	3.96	4.40	24
30	0.90	1.47	2.11	2.68	3.33	3.90	4.47	5.12	5.69	30
36	1.10	1.80	2.59	3.29	4.08	4.78	5.48	6.27	6.97	36
42	1.30	2.13	3.07	3.89	4.84	5.66	6.49	7.43	8.26	42
48	1.50	2.46	3.54	4.50	5.59	6.54	7.43	8.59	9.54	48
54	1.70	2.79	4.02	5.11	6.34	7.43	8.51	9.74	10.83	54
60	1.91	3.12	4.50	5.71	7.09	8.31	9.52	10.90	12.11	60
66	2.11	3.45	4.98	6.32	7.85	9.19	10.53	12.06	13.40	66
72	2.31	3.78	5.45	6.92	8.60	10.07	11.54	13.21	14.68	72
78	2.51	4.11	5.93	7.53	9.35	10.95	12.55	14.37	15.97	78
84	2.71	4.44	6.41	8.14	10.10	11.83	13.56	15.53	17.25	84
90	2.91	4.77	6.89	8.74	10.86	12.71	14.57	16.68	18.54	90
96	3.12	5.10	7.36	9.35	11.61	13.59	15.58	17.84	19.82	96

4D375 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37.5 degree angle on 5.063" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

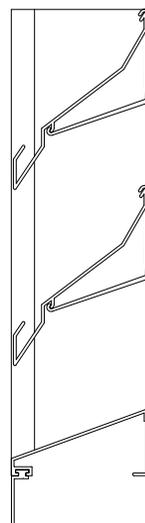
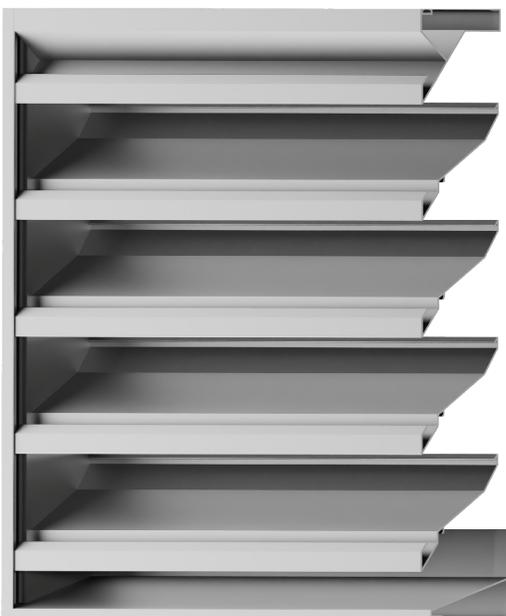
- 52.31% Free area
- Beginning point of water penetration is 725 fpm

Available Finishes:

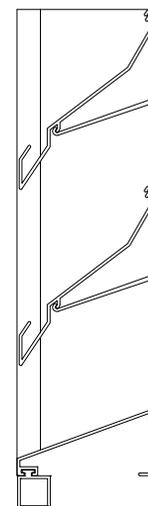
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration and air performance ratings for rectangular louvers only.



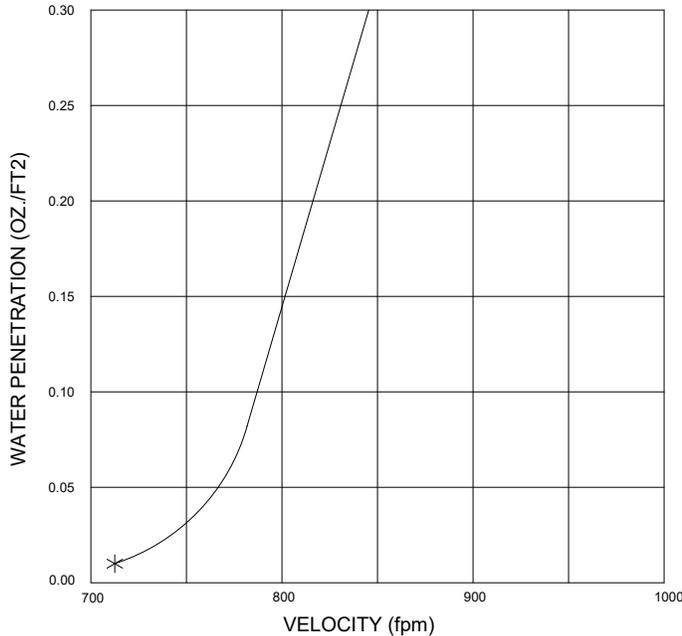
FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

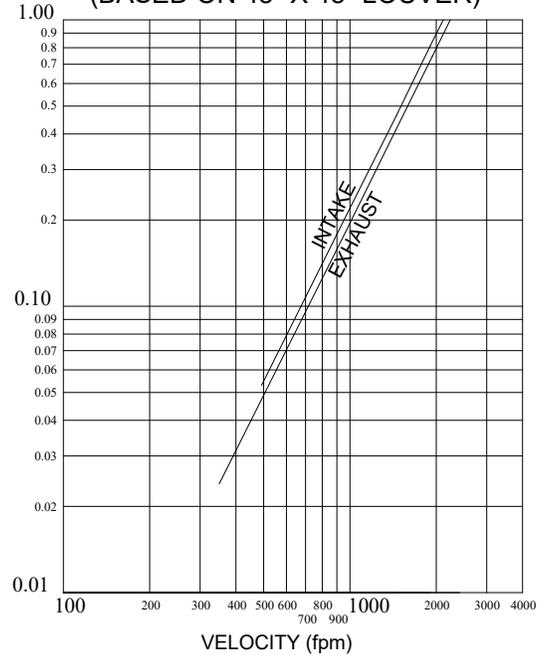
4D375 LOUVER PERFORMANCE DATA

WATER PENETRATION (BASED ON 48" X 48" LOUVER)



* - beginning point of water penetration is 725 fpm

PRESSURE DROP (BASED ON 48" X 48" LOUVER)



WATER PENETRATION

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} \div \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA



AIR PERFORMANCE, LLC. CERTIFIES THAT THE PRODUCT LINE SHOWN HEREIN IS LICENSED TO BEAR THE AMCA SEAL. THE RATINGS SHOWN ARE BASED ON TESTS AND PROCEDURES PERFORMED IN ACCORDANCE WITH AMCA PUBLICATION 511 AND COMPLY WITH THE REQUIREMENTS OF THE AMCA CERTIFIED RATINGS PROGRAM. THE AMCA CERTIFIED RATING SEAL APPLIES TO WATER PENETRATION AND AIR PERFORMANCE RATINGS FOR RECTANGULAR LOUVERS ONLY.

4D375 FREE AREA CHAT LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.26	0.42	0.58	0.73	0.89	1.05	1.21	1.37	1.53	1.69	1.84	2.00	2.16	2.32	2.48	2.64	2.80	2.96	3.11
18	0.48	0.77	1.06	1.35	1.65	1.94	2.23	2.53	2.83	3.11	3.40	3.70	3.99	4.28	4.58	4.87	5.16	5.45	5.75
24	0.69	1.12	1.55	1.97	2.40	2.83	3.26	3.68	4.11	4.54	4.96	5.39	5.92	6.24	6.67	7.10	7.53	7.95	8.38
30	0.91	1.47	2.03	2.60	3.16	3.72	4.28	4.84	5.40	5.96	6.52	7.08	7.64	8.21	8.77	9.33	9.89	10.45	11.01
36	1.13	1.82	2.52	3.22	3.91	4.61	5.30	6.00	6.69	7.39	8.08	8.78	9.47	10.17	10.86	11.56	12.25	12.95	13.84
42	1.35	2.18	3.01	3.84	4.67	5.49	6.32	7.15	7.98	8.81	9.64	10.47	11.30	12.13	12.96	13.79	14.62	15.45	16.28
48	1.57	2.53	3.49	4.46	5.42	6.38	7.35	8.31	9.27	10.24	11.20	12.16	13.13	14.09	15.05	16.02	16.98	17.94	18.91
54	1.78	2.88	3.98	5.08	6.17	7.27	8.37	9.47	10.56	11.66	12.76	13.86	14.95	16.05	17.15	18.25	19.34	20.44	21.54
60	2.00	3.23	4.46	5.70	6.93	8.16	9.39	10.62	11.86	13.09	14.32	15.55	16.78	18.01	19.25	20.48	21.71	22.94	24.17
66	2.22	3.59	4.95	6.32	7.68	9.05	10.41	11.78	13.15	14.51	15.88	17.24	18.61	19.98	21.34	22.71	24.07	25.44	26.80
72	2.44	3.94	5.44	6.94	8.44	9.94	11.44	12.94	14.44	15.94	17.44	18.94	20.44	21.94	23.44	24.94	26.44	27.94	29.44
78	2.66	4.29	5.92	7.56	9.19	10.83	12.46	14.09	15.73	17.36	19.00	20.63	22.26	23.90	25.53	27.17	28.80	30.43	32.07
84	2.87	4.64	6.41	8.18	9.95	11.71	13.48	15.25	17.02	18.79	20.56	22.32	24.09	25.86	27.63	29.40	31.16	32.93	34.70
90	3.09	4.99	6.90	8.80	10.70	12.60	14.51	16.41	18.31	20.21	22.11	24.02	25.92	27.82	29.72	31.63	33.53	35.43	37.33
96	3.31	5.35	7.38	9.42	11.46	13.49	15.53	17.56	19.60	21.64	23.67	25.71	27.75	29.78	31.82	33.86	35.89	37.93	39.97
102	3.53	5.70	7.87	10.04	12.21	14.38	16.55	18.72	20.89	23.06	25.23	27.40	29.57	31.74	33.92	36.09	38.26	40.43	42.60
108	3.75	6.05	8.35	10.66	12.96	15.27	17.57	19.88	22.18	24.49	26.79	29.10	31.40	33.71	36.01	38.32	40.62	42.93	45.23
114	3.96	6.40	8.84	11.29	13.72	16.16	18.60	21.03	23.47	25.91	28.35	30.79	33.23	35.67	38.11	40.55	42.98	45.42	47.86
120	4.18	6.75	9.33	11.90	14.47	17.05	19.62	22.19	24.76	27.34	29.91	32.48	35.06	37.63	40.20	42.78	45.35	47.92	50.49

4Z375 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37.5 degree angle on 5.063" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H.
 Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

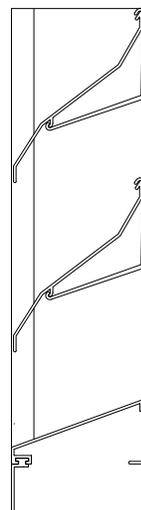
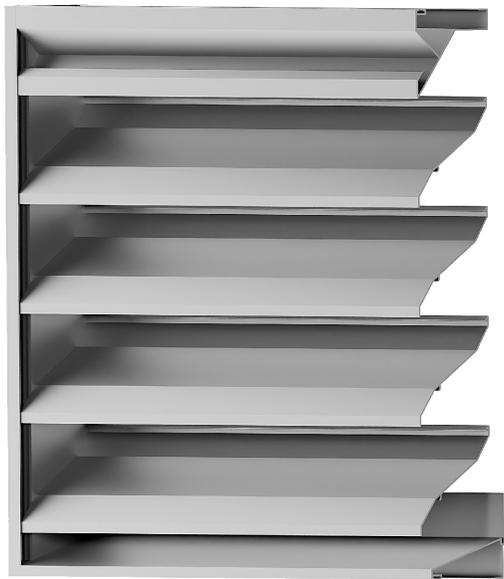
- 54.06% Free area
- Beginning point of water penetration is 797.4 fpm

Available Finishes:

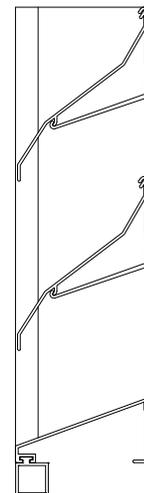
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration and air performance ratings for rectangular louvers only.



FLANGE ADAPTER OPTION

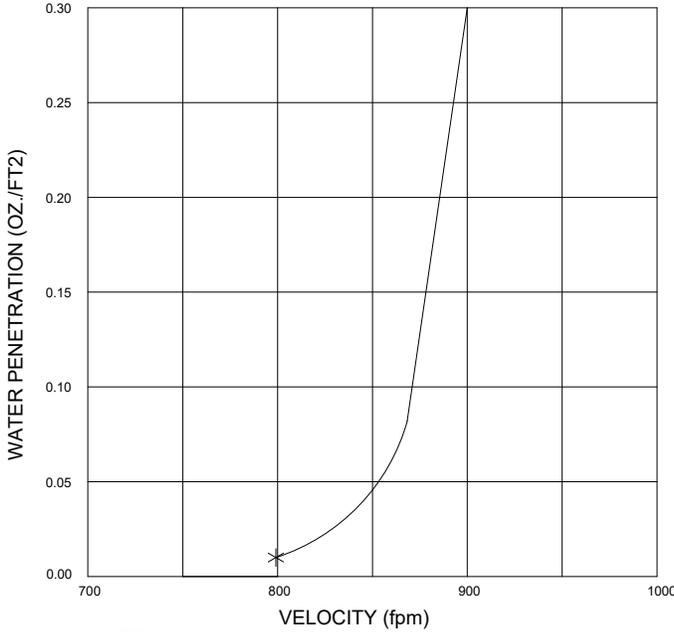


GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

4Z375 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)



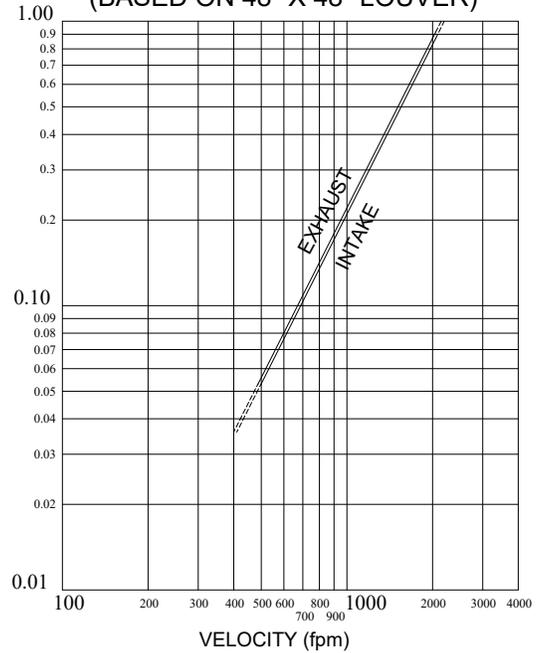
● - beginning point of water penetration is 797.4 fpm

WATER PENETRATION

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



_____ CFM /	_____ FPM =	_____ SQFT
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		



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4Z375 FREE AREA CHAT LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.34	0.54	0.75	0.96	1.16	1.37	1.58	1.78	1.99	2.2	2.4	2.61	2.82	3.03	3.23	3.44	3.65	3.85	4.06
18	0.6	0.98	1.35	1.72	2.09	2.47	2.84	3.21	3.58	3.95	4.33	4.7	5.07	5.44	5.81	6.19	6.56	6.93	7.3
24	0.83	1.35	1.86	2.38	2.89	3.4	3.92	4.43	4.95	5.46	5.97	6.49	7	7.51	8.03	8.54	9.06	9.57	10.08
30	1.04	1.69	2.33	2.97	3.61	4.26	4.9	5.54	6.18	6.82	7.47	8.11	8.75	9.39	10.04	10.68	11.32	11.96	12.6
36	1.31	2.12	2.93	3.74	4.55	5.36	6.17	6.98	7.79	8.6	9.41	10.22	11.02	11.83	12.64	13.45	14.26	15.07	15.88
42	1.57	2.53	3.49	4.45	5.42	6.38	7.34	8.31	9.27	10.23	11.2	12.16	13.12	14.09	15.05	16.01	16.97	17.94	18.9
48	1.83	2.96	4.09	5.22	6.35	7.48	8.65	9.73	10.86	11.99	13.12	14.25	15.37	16.5	17.63	18.76	19.89	21.02	22.15
54	2.09	3.37	4.66	5.94	7.23	8.51	9.79	11.08	12.36	13.65	14.93	16.22	17.5	18.79	20.07	21.36	22.64	23.93	25.21
60	2.3	3.71	5.12	6.54	7.95	9.36	10.77	12.19	13.6	15.01	16.43	17.84	19.25	20.67	22.08	23.49	24.9	26.32	27.73
66	2.53	4.08	5.63	7.19	8.74	10.3	11.85	13.4	14.96	16.51	18.07	19.62	21.17	22.73	24.28	25.84	27.39	28.94	30.5
72	2.79	4.51	6.23	7.95	9.67	11.39	13.11	14.83	16.55	18.27	19.99	21.71	23.42	25.14	26.86	28.58	30.3	32.02	33.74
78	3.06	4.95	6.83	8.72	10.6	12.48	14.37	16.25	18.14	20.02	21.91	23.79	25.68	27.56	29.44	31.33	33.21	35.1	36.98
84	3.34	5.4	7.45	9.51	11.56	13.62	15.67	17.73	19.78	21.84	23.89	25.95	28	30.06	32.11	34.17	36.23	38.28	40.34
90	3.55	5.73	7.92	10.1	12.28	14.47	16.65	18.84	21.02	23.2	25.39	27.57	29.75	31.94	34.12	36.31	38.49	40.67	42.86
96	3.76	6.07	8.38	10.69	13.01	15.32	17.63	19.94	22.26	24.57	26.88	29.19	31.5	33.82	36.13	38.44	40.75	43.07	45.38
102	4.02	6.5	8.97	11.45	13.92	16.4	18.88	21.35	23.83	26.3	28.78	31.25	33.73	36.2	38.68	41.15	43.63	46.11	48.58
108	4.29	6.93	9.57	12.21	14.85	17.49	20.13	22.78	25.42	28.06	30.7	33.34	35.98	38.62	41.26	43.9	46.54	49.18	51.82
114	4.56	7.37	10.17	12.98	15.78	18.59	21.39	24.2	27.01	29.81	32.62	35.42	38.23	41.03	43.84	46.65	49.54	52.26	55.06
120	4.8	7.76	10.71	13.66	16.62	19.57	22.53	25.48	28.44	31.39	34.35	37.3	40.26	43.21	46.16	49.12	52.07	55.03	57.98

4DB4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned at 37.5 degree angle on 4" centers.

Birdscreen: 1/2" X 0.063 intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

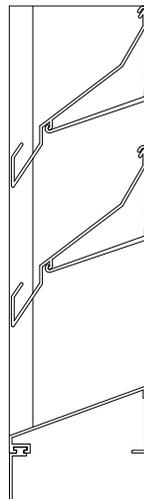
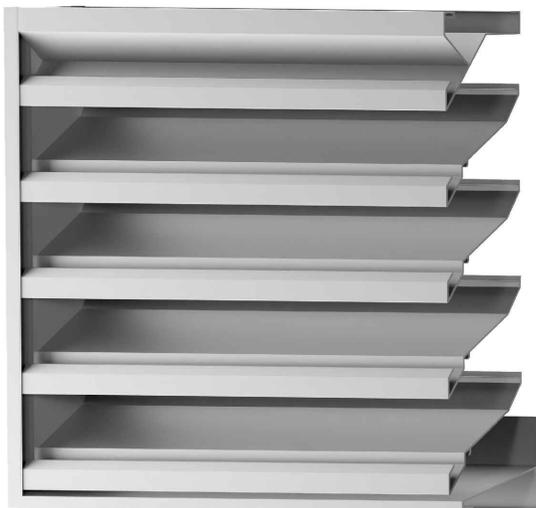
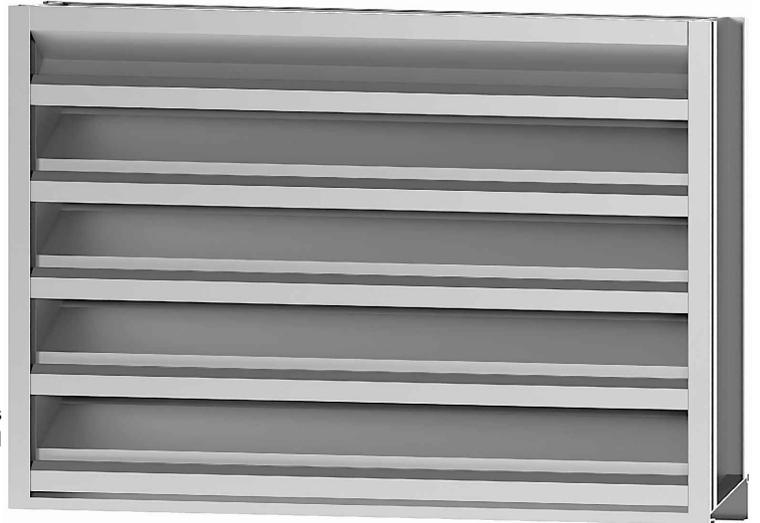
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

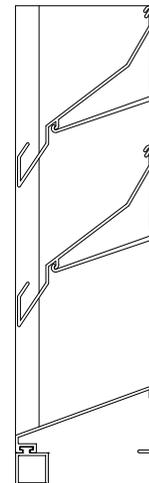
-51.56% Free area

Available Finishes:

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

4DB4 LOUVER PERFORMANCE DATA

		LOUVER WIDTH (IN)																		
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
LOUVER HEIGHT (IN)	12	0.33	0.54	0.74	0.94	1.15	1.35	1.56	1.76	1.96	2.17	2.37	2.58	2.78	2.99	3.19	3.39	3.60	3.80	4.01
	18	0.52	0.84	1.16	1.48	1.80	2.13	2.45	2.77	3.09	3.41	3.73	4.05	4.37	4.69	5.01	5.33	5.66	5.98	6.30
	24	0.81	1.30	1.80	2.30	2.79	3.29	3.79	4.28	4.78	5.28	5.77	6.27	6.77	7.26	7.76	8.26	8.75	9.25	9.75
	30	1.00	1.61	2.22	2.84	3.45	4.06	4.68	5.29	5.90	6.52	7.13	7.74	8.36	8.97	9.58	10.20	10.81	11.42	12.04
	36	1.28	2.07	2.86	3.65	4.44	5.23	6.02	6.81	7.60	8.39	9.17	9.96	10.75	11.54	12.33	13.12	13.91	14.70	15.49
	42	1.47	2.38	3.28	4.19	5.10	6.00	6.91	7.81	8.72	9.62	10.53	11.44	12.34	13.25	14.15	15.06	15.97	16.87	17.78
	48	1.76	2.84	3.92	5.00	6.08	7.17	8.25	9.33	10.41	11.49	12.57	13.66	14.74	15.82	16.90	17.98	19.07	20.15	21.23
	54	1.95	3.15	4.34	5.54	6.74	7.94	9.14	10.34	11.53	12.73	13.93	15.13	16.33	17.53	18.72	19.92	21.12	22.32	23.52
	60	2.23	3.61	4.98	6.36	7.73	9.10	10.48	11.85	13.23	14.60	15.98	17.35	18.72	20.10	21.47	22.85	24.22	25.59	26.97
	66	2.42	4.01	5.40	6.90	8.39	9.88	11.37	12.86	14.35	15.84	17.33	18.82	20.31	21.80	23.29	24.79	26.28	27.77	29.26
	72	2.71	4.38	6.04	7.71	9.38	11.04	12.71	14.38	16.04	17.71	19.38	21.04	22.71	24.38	26.04	27.71	29.38	31.04	32.71
	78	2.90	4.68	6.46	8.25	10.03	11.81	13.60	15.38	17.16	18.95	20.73	22.52	24.30	26.08	27.87	29.65	31.43	33.22	35.00
	84	3.18	5.14	7.10	9.06	11.02	12.98	14.94	16.90	18.86	20.82	22.78	24.74	26.69	28.65	30.61	32.57	34.53	36.49	38.45
	90	3.37	5.45	7.53	9.60	11.68	13.75	15.83	17.90	19.98	22.06	24.13	26.21	28.28	30.36	32.44	34.51	36.59	38.66	40.74
	96	3.66	5.91	8.16	10.41	12.67	14.92	17.17	19.42	21.67	23.92	26.18	28.43	30.68	32.93	35.18	37.43	39.69	41.94	44.19
	102	3.85	6.22	8.59	10.95	13.32	15.69	18.06	20.43	22.80	25.16	27.53	29.90	32.27	34.64	37.01	39.37	41.74	44.11	46.48
108	4.13	6.68	9.22	11.77	14.31	16.86	19.40	21.94	24.49	27.03	29.58	32.12	34.66	37.21	39.75	42.30	44.84	47.39	49.93	
114	4.32	6.98	9.65	12.31	14.97	17.63	20.29	22.95	25.61	28.27	30.93	33.59	36.25	38.92	41.58	44.24	46.90	49.56	52.22	
120	4.61	7.45	10.28	13.12	15.96	18.79	21.63	24.47	27.30	30.14	32.98	35.81	38.65	41.49	44.32	47.16	50.00	52.83	55.67	

4ZB4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.063 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.063 nominal wall thickness, blades positioned at 37.5 degree angle on 4" centers.

Birdscreen: 1/2" X 0.063 intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

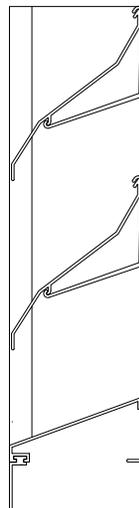
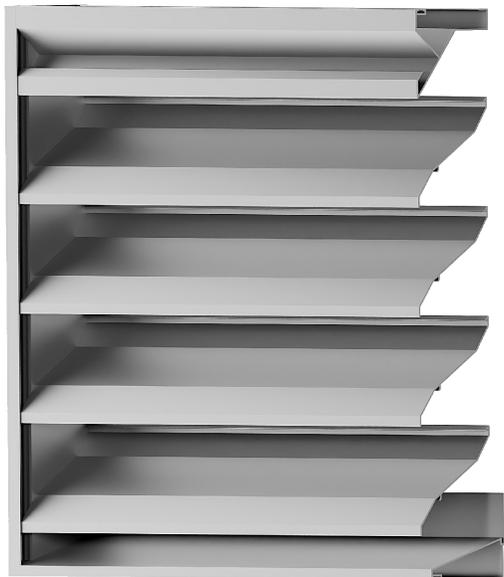
Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

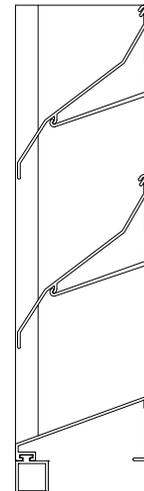
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Available Finishes:

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APD4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4.20" depth, .081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37 degree angle on 2.88" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

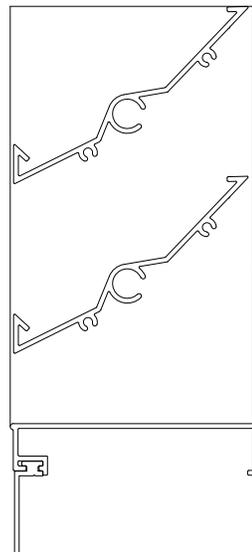
- 50.00% Free area
- Beginning point of water penetration Lies above 1056 fpm

Available Finishes:

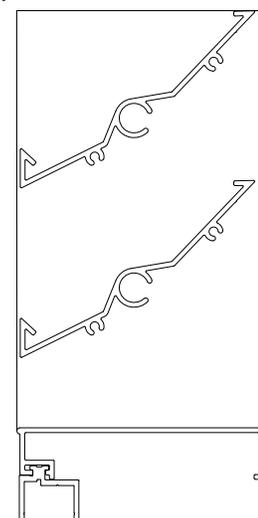
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



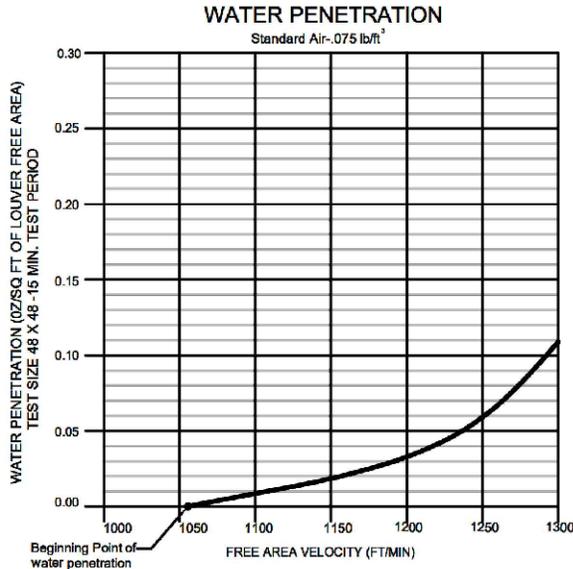
GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APD4 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

amca defines the beginning point of water penetration as the free area velocity at which .01 ounces or less of water per square foot of louver free area is measured to pass through a 48" x 48" louver during a 15 minute period. the amca water penetration test provides test data for the comparison of louver designs as to efficiency in resisting the penetration of rainfall under specific laboratory test conditions



* Beginning point of WATER PENETRATION lies above

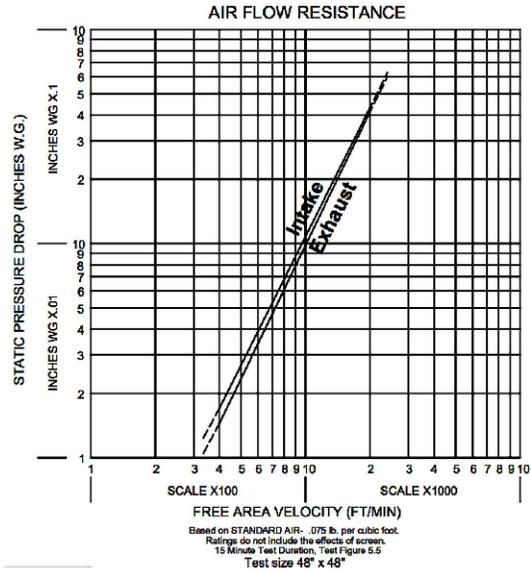
1056 fpm

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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



CFM / FPM = SQFT

AIR FLOW VOLUME FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

Louver Height Inches	Louver Width In Inches																Louver Height Inches			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102		108	114	120
12	0.32	0.51	0.71	0.91	1.10	1.30	1.50	1.70	1.89	2.09	2.29	2.48	2.68	2.88	3.08	3.27	3.47	3.67	3.86	12
18	0.55	0.90	1.24	1.59	1.93	2.28	2.63	2.97	3.32	3.66	4.01	4.35	4.70	5.04	5.39	5.73	6.08	6.42	6.77	18
24	0.80	1.30	1.80	2.30	2.80	3.30	3.80	4.30	4.80	5.30	5.80	6.30	6.80	7.30	7.80	8.30	8.80	9.30	9.79	24
30	0.99	1.61	2.23	2.84	3.46	4.08	4.70	5.31	5.93	6.55	7.17	7.78	8.40	9.02	9.64	10.25	10.87	11.49	12.11	30
36	1.21	1.97	2.73	3.48	4.24	4.99	5.75	6.51	7.26	8.02	8.78	9.53	10.29	11.05	11.80	12.56	13.31	14.07	14.83	36
42	1.47	2.38	3.30	4.22	5.13	6.05	6.96	7.88	8.79	9.71	10.63	11.54	12.46	13.37	14.29	15.20	16.12	17.04	17.95	42
48	1.69	2.75	3.80	4.86	5.91	6.96	8.02	9.07	10.13	11.18	12.24	13.29	14.35	15.40	16.45	17.51	18.56	19.62	20.67	48
54	1.92	3.12	4.32	5.52	6.72	7.92	9.11	10.31	11.51	12.71	13.91	15.11	16.31	17.51	18.70	19.90	21.10	22.30	23.50	54
60	2.16	3.50	4.85	6.19	7.53	8.88	10.22	11.57	12.91	14.26	15.60	16.94	18.29	19.63	20.98	22.32	23.67	25.01	26.35	60
66	2.39	3.88	5.37	6.86	8.35	9.84	11.33	12.82	14.31	15.80	17.29	18.79	20.28	21.77	23.26	24.75	26.24	27.73	29.22	66
72	2.63	4.26	5.90	7.54	9.18	10.81	12.45	14.09	15.73	17.36	19.00	20.64	22.28	23.91	25.55	27.19	28.83	30.46	32.10	72
78	2.85	4.63	6.40	8.18	9.95	11.73	13.51	15.28	17.06	18.84	20.61	22.39	24.16	25.94	27.72	29.49	31.27	33.05	34.82	78
84	3.11	5.04	6.98	8.91	10.85	12.78	14.72	16.66	18.59	20.53	22.46	24.40	26.34	28.27	30.21	32.14	34.08	36.01	37.95	84
90	3.34	5.42	7.50	9.58	11.66	13.74	15.82	17.90	19.97	22.05	24.13	26.21	28.29	30.37	32.45	34.53	36.61	38.69	40.77	90
96	3.58	5.82	8.05	10.29	12.52	14.76	16.99	19.22	21.46	23.69	25.93	28.16	30.39	32.63	34.86	37.10	39.33	41.57	43.80	96
102	3.76	6.10	8.44	10.78	13.12	15.47	17.81	20.15	22.49	24.83	27.17	29.52	31.86	34.20	36.54	38.88	41.22	43.57	45.91	102
108	4.05	6.58	9.11	11.64	14.16	16.69	19.22	21.75	24.27	26.80	29.33	31.86	34.38	36.91	39.44	41.96	44.49	47.02	49.55	108
114	4.24	6.89	9.53	12.18	14.82	17.47	20.12	22.76	25.41	28.05	30.70	33.34	35.99	38.63	41.28	43.92	46.57	49.21	51.86	114
120	4.48	7.27	10.06	12.85	15.64	18.43	21.22	24.02	26.81	29.60	32.39	35.18	37.97	40.76	43.55	46.34	49.14	51.93	54.72	120

APEL-4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4.16" depth, .081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 40 degree angle on 4.625" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

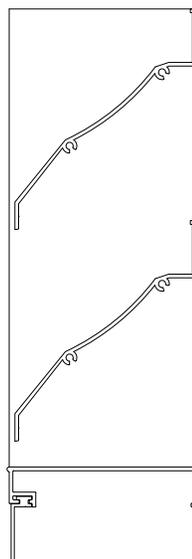
- 52.63% Free area
- Beginning point of water penetration Lies at 995 fpm

Available Finishes:

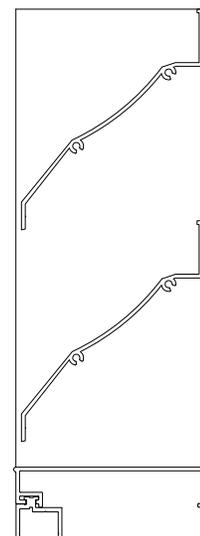
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APEL4 LOUVER PERFORMANCE DATA

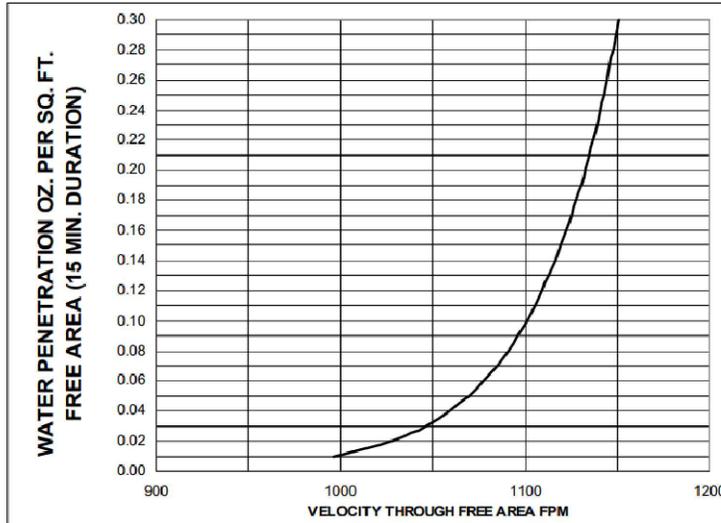
WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA defines the beginning point of water penetration as the free area velocity at which .01 ounces or less of water per square foot of louver free area is measured to pass through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides test data for the comparison of louver designs as to efficiency in resisting the penetration of rainfall under specific laboratory test conditions

Water Penetration

Standard Air-.075 lb/ft³



* Beginning point of WATER PENETRATION lies above

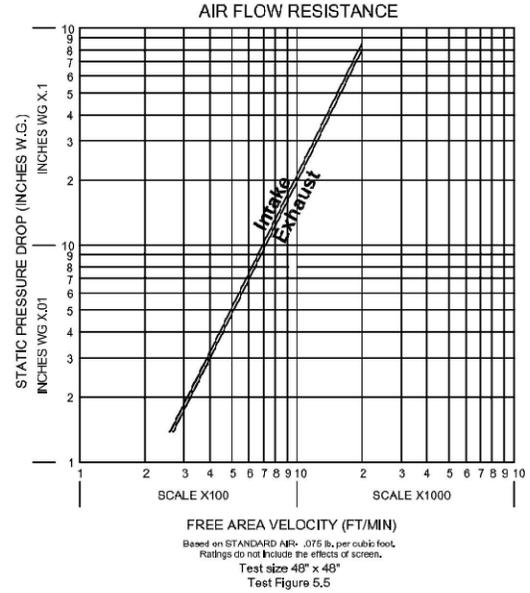
995 fpm

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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



_____ CFM / _____ FPM = _____ SQFT
AIR FLOW VOLUME FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

Louver Height Inches	Width - Inches																Louver Height Inches			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102		108	114	120
12	0.35	0.57	0.78	1.00	1.21	1.43	1.65	1.86	2.08	2.29	2.51	2.72	2.94	3.16	3.37	3.59	3.80	4.02	4.24	12
18	0.53	0.86	1.18	1.51	1.84	2.16	2.49	2.82	3.14	3.47	3.80	4.12	4.45	4.78	5.10	5.43	5.76	6.08	6.41	18
24	0.81	1.30	1.80	2.30	2.80	3.29	3.79	4.29	4.78	5.28	5.78	6.28	6.77	7.27	7.77	8.26	8.76	9.26	9.76	24
30	1.10	1.77	2.44	3.12	3.79	4.47	5.14	5.81	6.49	7.16	7.84	8.51	9.19	9.86	10.53	11.21	11.88	12.56	13.23	30
36	1.29	2.08	2.87	3.66	4.46	5.25	6.04	6.83	7.62	8.42	9.21	10.00	10.79	11.58	12.38	13.17	13.96	14.75	15.54	36
42	1.56	2.51	3.47	4.43	5.39	6.34	7.30	8.26	9.22	10.17	11.13	12.09	13.05	14.00	14.96	15.92	16.88	17.83	18.79	42
48	1.79	2.90	4.00	5.11	6.21	7.32	8.42	9.52	10.63	11.73	12.84	13.94	15.04	16.15	17.25	18.36	19.46	20.57	21.67	48
54	2.04	3.30	4.55	5.81	7.06	8.32	9.58	10.83	12.09	13.34	14.60	15.85	17.11	18.37	19.62	20.88	22.13	23.39	24.65	54
60	2.31	3.73	5.15	6.57	7.99	9.40	10.82	12.24	13.66	15.08	16.50	17.92	19.34	20.76	22.18	23.60	25.02	26.44	27.86	60
66	2.59	4.18	5.77	7.37	8.96	10.55	12.14	13.74	15.33	16.92	18.51	20.11	21.70	23.29	24.88	26.48	28.07	29.66	31.25	66
72	2.88	4.65	6.42	8.19	9.96	11.73	13.50	15.27	17.04	18.81	20.58	22.35	24.12	25.89	27.66	29.43	31.20	32.97	34.74	72
78	3.06	4.94	6.83	8.71	10.59	12.47	14.36	16.24	18.12	20.01	21.89	23.77	25.65	27.54	29.42	31.30	33.19	35.07	36.95	78
84	3.33	5.39	7.44	9.49	11.54	13.59	15.64	17.70	19.75	21.80	23.85	25.90	27.95	30.01	32.06	34.11	36.16	38.21	40.26	84
90	3.62	5.85	8.08	10.31	12.54	14.77	17.00	19.23	21.46	23.68	25.91	28.14	30.37							
96	3.82	6.17	8.52	10.86	13.21	15.56	17.91	20.26	22.61	24.96	27.31	29.66	32.01							
102	4.08	6.60	9.11	11.62	14.14	16.65	19.16	21.67	24.19	26.70	29.21	31.73	34.24							
108	4.37	7.06	9.75	12.43	15.12	17.81	20.50	23.19	25.88	28.56	31.25	33.94	36.63							
114	4.66	7.52	10.39	13.25	16.12	18.98	21.85	24.71	27.58	30.45	33.31	36.18	39.04							
120	4.83	7.81	10.78	13.76	16.73	19.71	22.68	25.66	28.63	31.61	34.58	37.56	40.53							

APHFA-4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4.21" depth, .081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 50 degree angle on 3.75" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

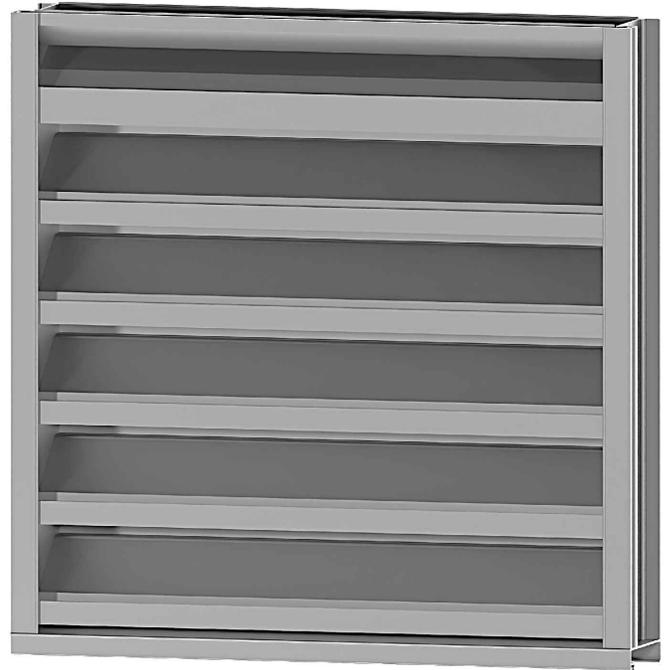
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

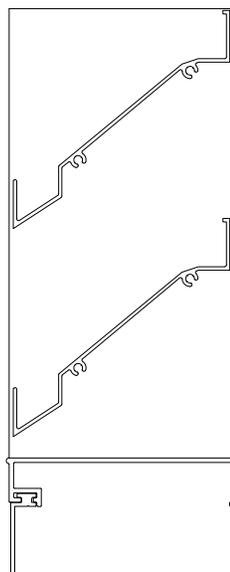
- 56.25% Free area
- Beginning point of water penetration Lies at 901 fpm

Available Finishes:

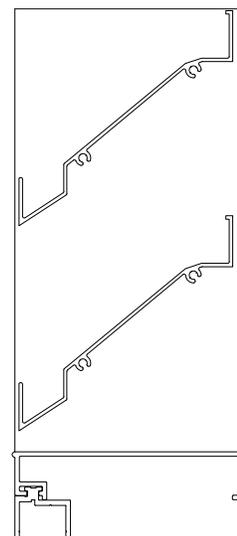
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



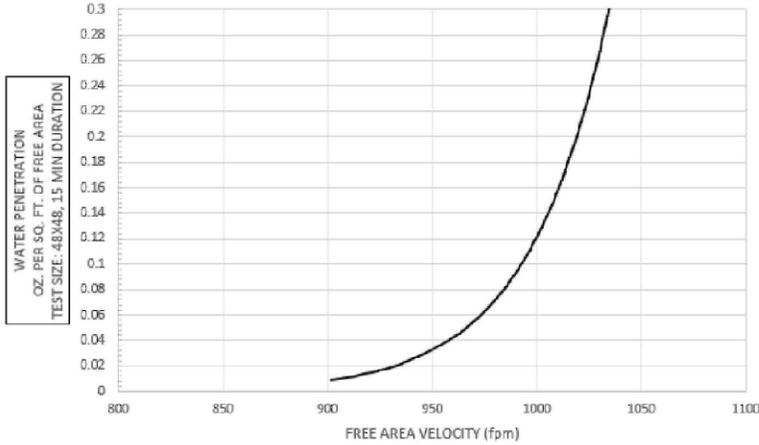
GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APHFA-4 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA defines the beginning point of water penetration as the free area velocity at which .01 ounces or less of water per square foot of louver free area is measured to pass through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides test data for the comparison of louver designs as to efficiency in resisting the penetration of rainfall under specific laboratory test conditions



* Beginning point of WATER PENETRATION lies above

901 fpm

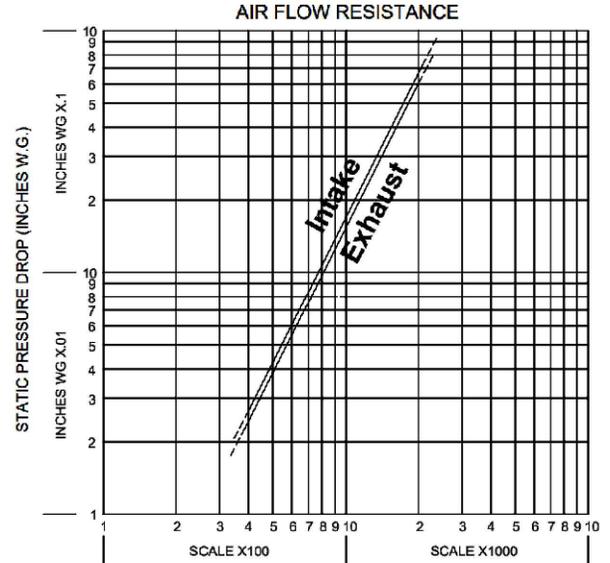


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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



_____ CFM / _____ FPM = _____ SQFT
AIR FLOW VOLUME FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION REQUIRED LOUVER FREE AREA
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

Height Inches	Width - Inches																Height Inches			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102		108	114	120
12	0.34	0.55	0.75	0.96	1.17	1.38	1.59	1.79	2.00	2.21	2.42	2.62	2.83	3.04	3.25	3.46	3.66	3.87	4.08	12
18	0.61	0.98	1.35	1.72	2.10	2.47	2.84	3.21	3.59	3.96	4.33	4.70	5.08	5.45	5.82	6.19	6.57	6.94	7.31	18
24	0.83	1.35	1.86	2.37	2.88	3.40	3.91	4.42	4.93	5.45	5.96	6.47	6.98	7.50	8.01	8.52	9.03	9.55	10.06	24
30	1.15	1.86	2.56	3.27	3.98	4.69	5.39	6.10	6.81	7.52	8.22	8.93	9.64	10.35	11.05	11.76	12.47	13.18	13.88	30
36	1.38	2.22	3.07	3.92	4.77	5.61	6.46	7.31	8.16	9.00	9.85	10.70	11.55	12.39	13.24	14.09	14.94	15.78	16.63	36
42	1.62	2.61	3.60	4.60	5.59	6.59	7.58	8.57	9.57	10.56	11.56	12.55	13.55	14.54	15.53	16.53	17.52	18.52	19.51	42
48	1.92	3.10	4.28	5.46	6.64	7.82	9.00	10.18	11.37	12.55	13.73	14.91	16.09	17.27	18.45	19.63	20.81	21.99	23.17	48
54	2.15	3.47	4.79	6.12	7.44	8.76	10.08	11.41	12.73	14.05	15.37	16.70	18.02	19.34	20.66	21.99	23.31	24.63	25.95	54
60	2.47	3.98	5.50	7.02	8.54	10.05	11.57	13.09	14.61	16.12	17.64	19.16	20.68	22.19	23.71	25.23	26.75	28.26	29.78	60
66	2.69	4.35	6.01	7.67	9.32	10.98	12.64	14.30	15.95	17.61	19.27	20.93	22.58	24.24	25.90	27.56	29.21	30.87	32.53	66
72	2.93	4.74	6.54	8.34	10.15	11.95	13.76	15.56	17.37	19.17	20.97	22.78	24.58	26.39	28.19	29.99	31.80	33.60	35.41	72
78	3.24	5.23	7.22	9.22	11.21	13.20	15.19	17.19	19.18	21.17	23.16	25.16	27.15	29.14	31.13	33.13	35.12	37.11	39.10	78
84	3.47	5.60	7.73	9.86	12.00	14.13	16.26	18.39	20.53	22.66	24.79	26.92	29.06	31.19	33.32	35.45	37.59	39.72	41.85	84
90	3.78	6.11	8.44	10.76	13.09	15.42	17.75	20.07	22.40	24.73	27.06	29.38	31.71							90
96	4.01	6.48	8.94	11.41	13.88	16.35	18.81	21.28	23.75	26.22	28.68	31.15	33.62							96
102	4.25	6.86	9.48	12.09	14.70	17.32	19.93	22.55	25.16	27.78	30.39	33.00	35.62							102
108	4.55	7.36	10.16	12.96	15.76	18.57	21.37	24.17	26.97	29.78	32.58	35.38	38.18							108
114	4.78	7.72	10.67	13.61	16.55	19.49	22.44	25.38	28.32	31.26	34.21	37.15	40.09							114
120	5.10	8.24	11.37	14.51	17.65	20.79	23.92	27.06	30.20	33.34	36.47	39.61	42.75							120

APHV-4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.081" nominal wall thickness.

Front Blade: 6063-T6 extruded aluminum, 0.060" nominal wall thickness at 1.50" centers

Rear Blade: 6063-T6 extruded aluminum, 0.060" nominal wall thickness at 0.75" centers

Birdscreen: 1/2" x 0.063" intercrimped aluminum mesh in removable frame.

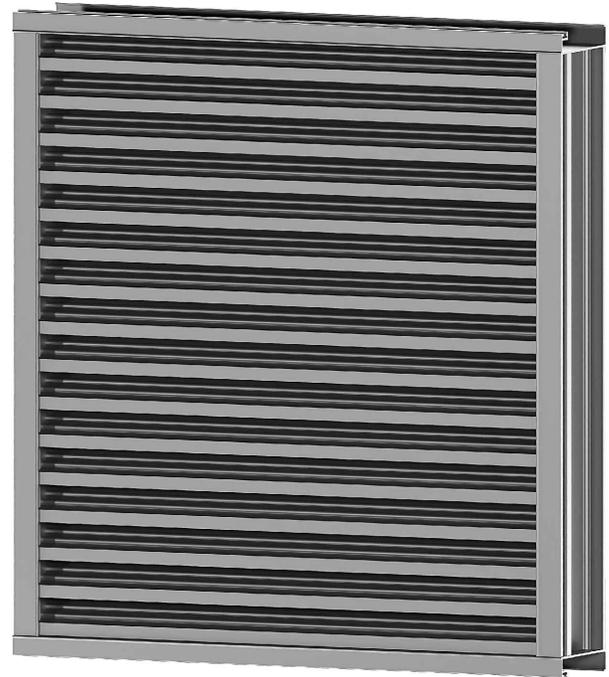
Finish: mill

Minimum Size: 12"W x 12"H

Maximum Single Section: 120"W x 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

OPTIONS:

- Extended sill
- Insect screen and bird screen (Various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.



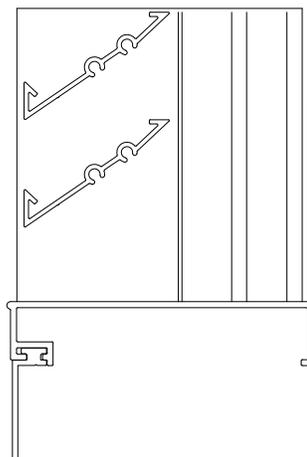
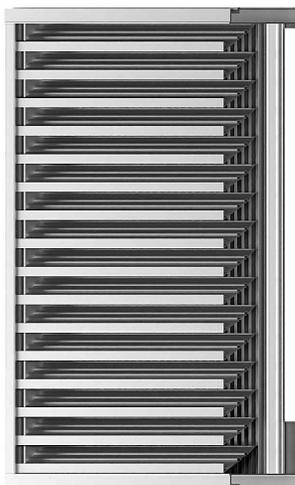
PERFORMANCE:

- 48.44% FREE AREA
- Beginning point of water penetration above 1250 fpm

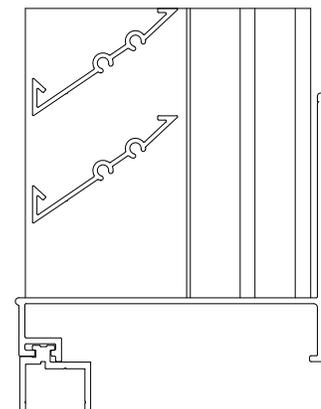
AVAILABLE FINISHES:

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize

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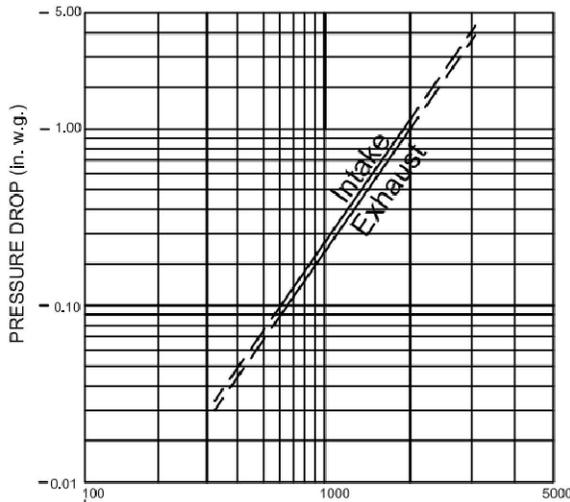
FLANGE ADAPTER OPTION



**GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)**

APHV4 STATIONARY LOUVER PERFORMANCE

Air Flow Resistance



Based on STANDARD AIR- .075 lb. per cubic foot.
 Ratings do not include the effects of screen.
 SIZE TESTED: 48"x48"
 TEST FIGURE 5.5
 INTAKE & EXHAUST

* Beginning point of WATER PENETRATION lies above
1250 fpm



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Louver Height Inches	Width - Inches														Louver Height Inches					
	12	18	24	30	36	42	48	54	60	66	72	78	84	90		96	102	108	114	120
12	0.35	0.58	0.82	1.05	1.28	1.52	1.75	1.98	2.22	2.45	2.68	2.92	3.15	3.39	3.62	3.85	4.09	4.32	4.55	12
18	0.58	0.93	1.30	1.67	2.04	2.41	2.78	3.15	3.52	3.89	4.26	4.63	5.00	5.37	5.74	6.11	6.48	6.85	7.22	18
24	0.78	1.27	1.77	2.28	2.79	3.29	3.80	4.31	4.81	5.32	5.83	6.34	6.84	7.35	7.86	8.36	8.87	9.38	9.88	24
30	0.97	1.61	2.25	2.90	3.54	4.18	4.83	5.47	6.11	6.76	7.40	8.04	8.69	9.33	9.97	10.62	11.26	11.90	12.55	30
36	1.17	1.95	2.73	3.51	4.29	5.07	5.85	6.63	7.41	8.19	8.97	9.75	10.53	11.31	12.09	12.87	13.65	14.43	15.21	36
42	1.38	2.29	3.21	4.13	5.04	5.96	6.88	7.79	8.71	9.63	10.54	11.46	12.38	13.29	14.21	15.13	16.04	16.96	17.88	42
48	1.58	2.63	3.69	4.74	5.79	6.85	7.75	8.95	10.01	11.06	12.11	13.17	14.22	15.28	16.33	17.38	18.44	19.49	20.54	48
54	1.78	2.98	4.17	5.36	6.55	7.74	8.93	10.12	11.31	12.50	13.69	14.88	16.07	17.26	18.45	19.64	20.83	22.02	23.21	54
60	1.98	3.32	4.64	5.97	7.30	8.62	9.95	11.28	12.60	13.93	15.26	16.59	17.91	19.24	20.57	21.89	23.22	24.55	25.87	60
66	2.20	3.68	5.12	6.59	8.05	9.51	10.98	12.44	13.90	15.37	16.83	18.29	19.76	21.22	22.68	24.15	25.61	27.07	28.54	66
72	2.40	4.00	5.60	7.20	8.80	10.40	12.00	13.60	15.20	16.80	18.40	20.00	21.60	23.20	24.80	26.40	28.00	29.60	31.20	72
78	2.61	4.34	6.08	7.82	9.55	11.29	13.03	14.78	16.50	18.24	19.97	21.71	23.45	25.18	26.92	28.66	30.39	32.13	33.87	78
84	2.81	4.68	6.56	8.43	10.30	12.18	14.05	15.92	17.80	19.67	21.54	23.42	25.29	27.17	29.04	30.91	32.79	34.66	36.53	84
90	3.02	5.03	7.04	9.05	11.06	13.07	15.08	17.09	19.10	21.11	23.12	25.13	27.14							90
96	3.22	5.37	7.51	9.66	11.81	13.95	16.10	18.25	20.39	22.54	24.69	26.84	28.98							96
102	3.43	5.71	7.99	10.28	12.56	14.84	17.13	19.41	21.69	23.98	26.26	28.54	30.83							102
108	3.63	6.05	8.47	10.89	13.31	15.73	18.15	20.57	22.99	25.41	27.83	30.25	32.67							108
114	3.84	6.39	8.95	11.51	14.06	16.62	19.18	21.73	24.29	26.85	29.40	31.96	34.52							114
120	4.04	6.73	9.43	12.12	14.81	17.51	20.20	22.89	25.59	28.28	30.97	33.67	36.36							120

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	.0199 and below

* Discharge Loss Intake	
Wind Velocity (mph)	Class
29	3
50	3

Wind Driven Rain Penetration Classes	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

75 mm/h (3 in/h) Rainfall & 13 m/s (29 mph) Wind Velocity				
Core Velocity fpm (m/s)	Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness Ratio	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	100.0	A
96 (0.5)	1065 (0.50)	184 (0.9)	100.0	A
197 (1.0)	2121 (1.00)	371 (1.9)	100.0	A
295 (1.5)	3175 (1.50)	555 (2.8)	100.0	A
394 (2.0)	4241 (2.00)	741 (3.8)	100.0	A
492 (2.5)	5296 (2.50)	926 (4.7)	100.0	A
591 (3.0)	6362 (3.00)	1112 (5.6)	100.0	A
689 (3.5)	7416 (3.50)	1297 (6.6)	100.0	A
787 (4.0)	8471 (4.00)	1481 (7.5)	100.0	A
886 (4.5)	9537 (4.50)	1667 (8.5)	100.0	A
984 (5.0)	10592 (5.00)	1852 (9.4)	100.0	A

202.4 mm/h (8 in/h) Rainfall & 22 m/s (50 mph) Wind Velocity				
Core Velocity fpm (m/s)	Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness Ratio	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	100.0	A
96 (0.5)	1033 (0.49)	181 (0.9)	100.0	A
194 (1.0)	2068 (0.99)	365 (1.9)	100.0	A
284 (1.4)	3057 (1.44)	534 (2.7)	100.0	A
400 (2.0)	4306 (2.03)	753 (3.8)	100.0	A
496 (2.5)	5339 (2.52)	933 (4.7)	100.0	A
577 (2.9)	6211 (2.93)	1086 (5.5)	100.0	A
674 (3.4)	7255 (3.42)	1265 (6.4)	99.8	A
791 (4.0)	8514 (4.02)	1489 (7.6)	99.0	A

DCFL-D-4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4.20" depth, .125" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37 degree angle on 2.88" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 72"W X 72"H . Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

- 50.00% Free area
- Beginning point of water penetration Lies above 1250 fpm

Available Finishes:

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize

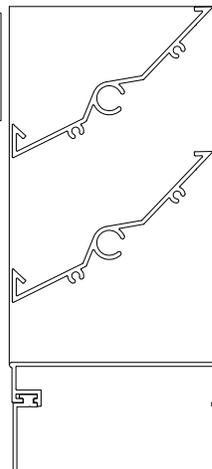


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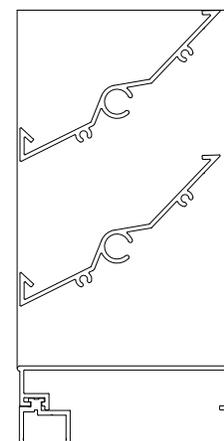


MIAMI-DADE COUNTY, Florida notice of acceptance #: 20-0901.01 (Expires 01/17/26)
Florida building code product approval #: FL3281

Max design pressure rating
 +150, -150 psf
 Large missile impact resistance



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

DCFL-D-4 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

* Beginning point of WATER PENETRATION lies above

1250 fpm



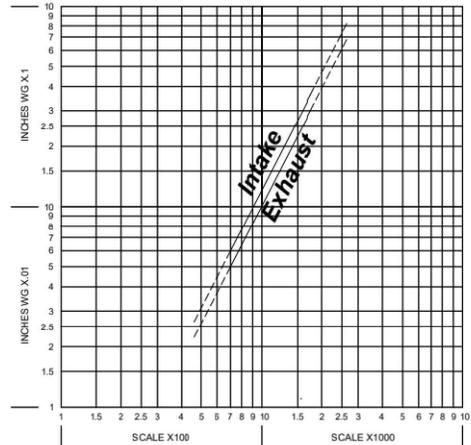
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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)

AIR FLOW RESISTANCE



**PRESSURE DROP
 INTAKE & EXHAUST**

FREE AREA VELOCITY (FT/MIN)

Based on STANDARD AIR: .075 lb. per cubic foot.
 Ratings do not include the effects of screen.
 SIZE TESTED: 48" X 48"

_____ CFM /	_____ FPM =	_____ SQFT
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		

MODEL DCFL-D-4 FREE AREA CHART (SQUARE FEET)

Louver Height Inches	Louver Width In Inches										Louver Height Inches	
	12	18	24	30	36	42	48	54	60	66		72
12	0.32	0.51	0.71	0.91	1.10	1.30	1.50	1.70	1.89	2.09	2.29	12
18	0.55	0.90	1.24	1.59	1.93	2.28	2.63	2.97	3.32	3.66	4.01	18
24	0.80	1.30	1.80	2.30	2.80	3.30	3.80	4.30	4.80	5.30	5.80	24
30	0.99	1.61	2.23	2.84	3.46	4.08	4.70	5.31	5.93	6.55	7.17	30
36	1.21	1.97	2.73	3.48	4.24	4.99	5.75	6.51	7.26	8.02	8.78	36
42	1.47	2.38	3.30	4.22	5.13	6.05	6.96	7.88	8.79	9.71	10.63	42
48	1.69	2.75	3.80	4.86	5.91	6.96	8.02	9.07	10.13	11.18	12.24	48
54	1.92	3.12	4.32	5.52	6.72	7.92	9.11	10.31	11.51	12.71	13.91	54
60	2.16	3.50	4.85	6.19	7.53	8.88	10.22	11.57	12.91	14.26	15.60	60
66	2.39	3.88	5.37	6.86	8.35	9.84	11.33	12.82	14.31	15.80	17.29	66
72	2.63	4.26	5.90	7.54	9.18	10.81	12.45	14.09	15.73	17.36	19.00	72

5WDRL-HP STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned on 2" centers.

Birdscreen: 1/2" X 0.063 intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

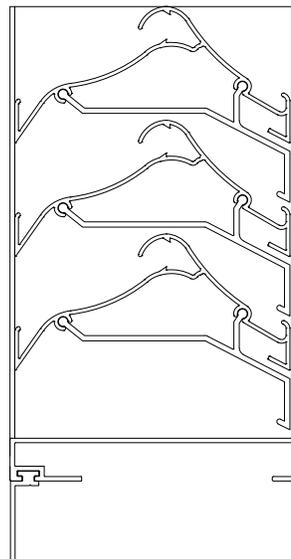
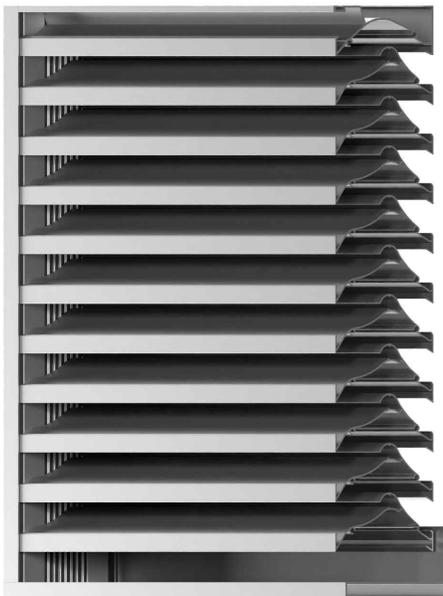
- 54.06% Free area
- Wind Driven Rain "A" Rating

Available Finishes:

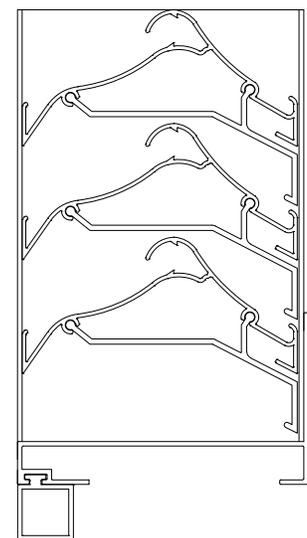
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

5WDRL-HP LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

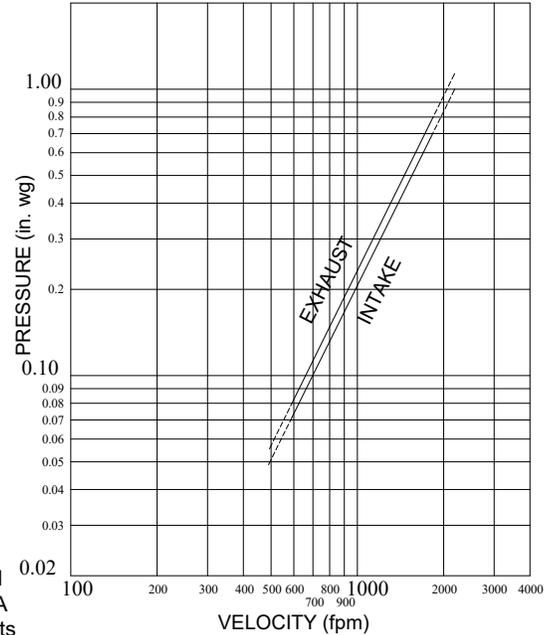
(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	593	6387	1291	99.3	A	3
29	3	993	10695	1925	85.6	C	3

Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



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_____ CFM /	_____ FPM =	_____ SQFT
<small>AIR FLOW VOLUME</small>	<small>FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION</small>	<small>REQUIRED LOUVER FREE AREA</small>
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		

5WDRL-HP FREE AREA CHART
 LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.26	0.42	0.58	0.73	0.89	1.05	1.21	1.37	1.53	1.69	1.84	2.00	2.16	2.32	2.48	2.64	2.80	2.96	3.11
18	0.48	0.77	1.06	1.35	1.65	1.94	2.23	2.53	2.83	3.11	3.40	3.70	3.99	4.28	4.58	4.87	5.16	5.45	5.75
24	0.69	1.12	1.55	1.97	2.40	2.83	3.26	3.68	4.11	4.54	4.96	5.39	5.92	6.24	6.67	7.10	7.53	7.95	8.38
30	0.91	1.47	2.03	2.60	3.16	3.72	4.28	4.84	5.40	5.96	6.52	7.08	7.64	8.21	8.77	9.33	9.89	10.45	11.01
36	1.13	1.82	2.52	3.22	3.91	4.61	5.30	6.00	6.69	7.39	8.08	8.78	9.47	10.17	10.86	11.56	12.25	12.95	13.84
42	1.35	2.18	3.01	3.84	4.67	5.49	6.32	7.15	7.98	8.81	9.64	10.47	11.30	12.13	12.96	13.79	14.62	15.45	16.28
48	1.57	2.53	3.49	4.46	5.42	6.38	7.35	8.31	9.27	10.24	11.20	12.16	13.13	14.09	15.05	16.02	16.98	17.94	18.91
54	1.78	2.88	3.98	5.08	6.17	7.27	8.37	9.47	10.56	11.66	12.76	13.86	14.95	16.05	17.15	18.25	19.34	20.44	21.54
60	2.00	3.23	4.46	5.70	6.93	8.16	9.39	10.62	11.86	13.09	14.32	15.55	16.78	18.01	19.25	20.48	21.71	22.94	24.17
66	2.22	3.59	4.95	6.32	7.68	9.05	10.41	11.78	13.15	14.51	15.88	17.24	18.61	19.98	21.34	22.71	24.07	25.44	26.80
72	2.44	3.94	5.44	6.94	8.44	9.94	11.44	12.94	14.44	15.94	17.44	18.94	20.44	21.94	23.44	24.94	26.44	27.94	29.44
78	2.66	4.29	5.92	7.56	9.19	10.83	12.46	14.09	15.73	17.36	19.00	20.63	22.26	23.90	25.53	27.17	28.80	30.43	32.07
84	2.87	4.64	6.41	8.18	9.95	11.71	13.48	15.25	17.02	18.79	20.56	22.32	24.09	25.86	27.63	29.40	31.16	32.93	34.70
90	3.09	4.99	6.90	8.80	10.70	12.60	14.51	16.41	18.31	20.21	22.11	24.02	25.92	27.82	29.72	31.63	33.53	35.43	37.33
96	3.31	5.35	7.38	9.42	11.46	13.49	15.53	17.56	19.60	21.64	23.67	25.71	27.75	29.78	31.82	33.86	35.89	37.93	39.97
102	3.53	5.70	7.87	10.04	12.21	14.38	16.55	18.72	20.89	23.06	25.23	27.40	29.57	31.74	33.92	36.09	38.26	40.43	42.60
108	3.75	6.05	8.35	10.66	12.96	15.27	17.57	19.88	22.18	24.49	26.79	29.10	31.40	33.71	36.01	38.32	40.62	42.93	45.23
114	3.96	6.40	8.84	11.29	13.72	16.16	18.60	21.03	23.47	25.91	28.35	30.79	33.23	35.67	38.11	40.55	42.98	45.42	47.86
120	4.18	6.75	9.33	11.90	14.47	17.05	19.62	22.19	24.76	27.34	29.91	32.48	35.06	37.63	40.20	42.78	45.35	47.92	50.49

5WDRL STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned on 2.125" centers.

Birdscreen: 1/2" X 0.063 intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

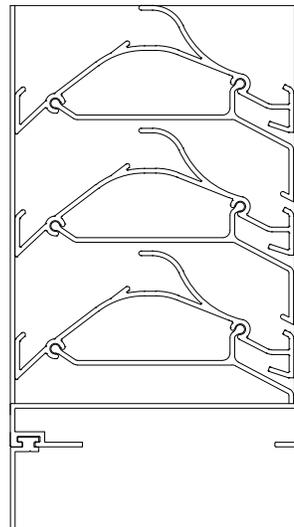
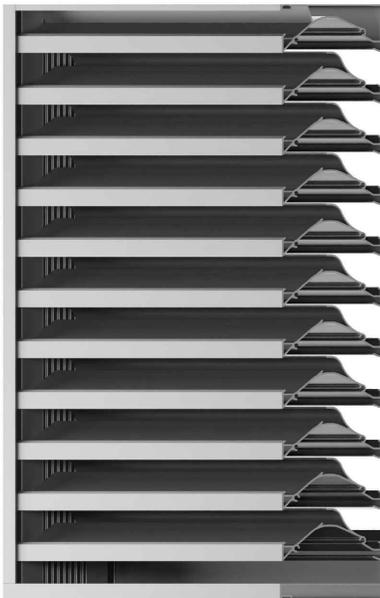
- 54.06% Free area
- Wind Driven Rain "B" Rating

Available Finishes:

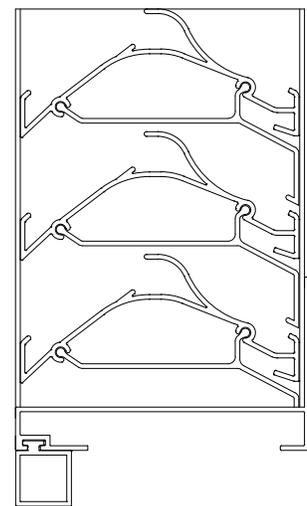
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to air performance and wind driven rain ratings for rectangular louvers only.



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

5WDRL LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	299	3223	573	95.5	B	3
29	3	393	4234	754	85	C	3

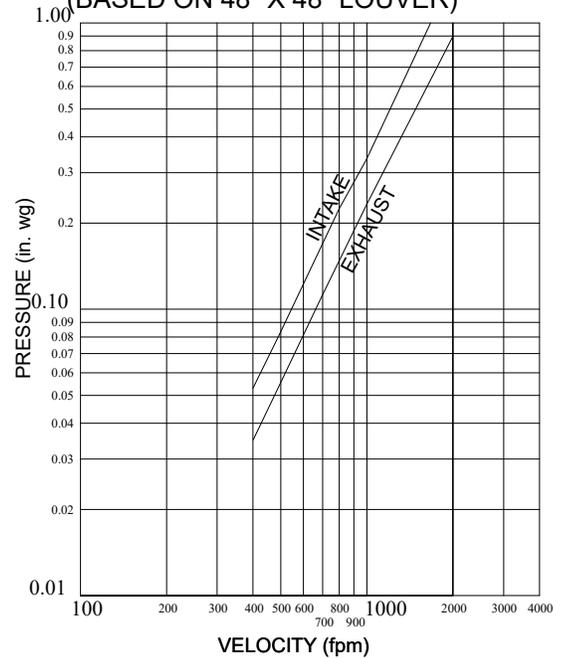
Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



_____	CFM /	_____	FPM =	_____	SQFT
<small>AIR FLOW VOLUME</small>		<small>FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION</small>		<small>REQUIRED LOUVER FREE AREA</small>	
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE					
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA					

5WDRL FREE AREA CHART

LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.29	0.47	0.65	0.82	1.00	1.18	1.36	1.54	1.71	1.89	2.07	2.25	2.43	2.61	2.78	2.96	3.14	3.32	3.50
18	0.53	0.85	1.18	1.50	1.83	2.15	2.48	2.80	3.13	3.45	3.78	4.10	4.43	4.75	5.08	5.40	5.73	6.05	6.38
24	0.79	1.28	1.77	2.25	2.74	3.23	3.72	4.20	4.69	5.18	5.67	6.15	6.64	7.13	7.62	8.10	8.59	9.08	9.57
30	1.06	1.71	2.36	3.01	3.66	4.31	4.96	5.61	6.26	6.91	7.56	8.21	8.86	9.51	10.16	10.81	11.46	12.11	12.76
36	1.30	2.10	2.90	3.70	4.50	5.30	6.10	6.90	7.70	8.50	9.30	10.10	10.90	11.70	12.50	13.30	14.10	14.90	15.70
42	1.54	2.49	3.43	4.38	5.33	6.27	7.22	8.17	9.11	10.06	11.01	11.95	12.90	13.85	14.79	15.74	16.69	17.64	18.58
48	1.78	2.87	3.96	5.06	6.15	7.25	8.34	9.43	10.53	11.62	12.72	13.81	14.90	16.00	17.09	18.18	19.28	20.37	21.47
54	2.02	3.27	4.52	5.76	7.01	8.25	9.50	10.75	11.99	13.24	14.48	15.73	16.97	18.22	19.47	20.71	21.96	23.20	24.45
60	2.29	3.70	5.11	6.51	7.92	9.33	10.74	12.15	13.56	14.96	16.37	17.78	19.19	20.60	22.01	23.41	24.82	26.23	27.64
66	2.55	4.12	5.69	7.26	8.82	10.39	11.96	13.53	15.10	16.67	18.24	19.81	21.37	22.94	24.51	26.08	27.65	29.22	30.79
72	2.79	4.51	6.23	7.94	9.66	11.38	13.10	14.82	16.53	18.25	19.97	21.69	23.40	25.12	26.84	28.56	30.28	31.99	33.71
78	3.03	4.89	6.76	8.62	10.49	12.35	14.22	16.08	17.95	19.81	21.68	23.54	25.41	27.27	29.13	31.00	32.86	34.73	36.59
84	3.27	5.27	7.28	9.29	11.30	13.31	15.32	17.33	19.34	21.35	23.36	25.37	27.38	29.39	31.40	33.41	35.42	37.43	39.44
90	3.52	5.69	7.85	10.02	12.19	14.35	16.52	18.69	20.85	23.02	25.19	27.35	29.52	31.69	33.85	36.02	38.19	40.35	42.52
96	3.78	6.11	8.44	10.77	13.10	15.43	17.76	20.09	22.42	24.75	27.08	29.41	31.73	34.06	36.39	38.72	41.05	43.38	45.71
102	4.04	6.52	9.01	11.49	13.97	16.46	18.94	21.43	23.91	26.40	28.88	31.37	33.85	36.33	38.82	41.30	43.79	46.27	48.76
108	4.28	6.91	9.54	12.17	14.80	17.43	20.06	22.69	25.33	27.96	30.59	33.22	35.85	38.48	41.11	43.75	46.38	49.01	51.64
114	4.51	7.29	10.07	12.85	15.63	18.41	21.18	23.96	26.74	29.52	32.30	35.07	37.85	40.63	43.41	46.19	48.97	51.74	54.52
120	4.75	7.68	10.60	13.53	16.45	19.38	22.30	25.23	28.15	31.08	34.00	36.93	39.85	42.78	45.70	48.63	51.55	54.48	57.40

5WDRL-V STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned on 2.000" centers.

Birdscreen: 1/2" X 0.063 intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W x 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

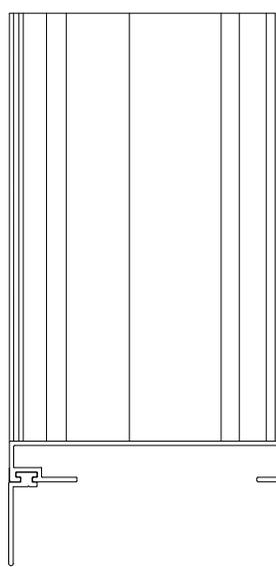
- 54.06% Free area
- Beginning point of water penetration 962
- Wind Driven Rain "A" Rating

Available Finishes:

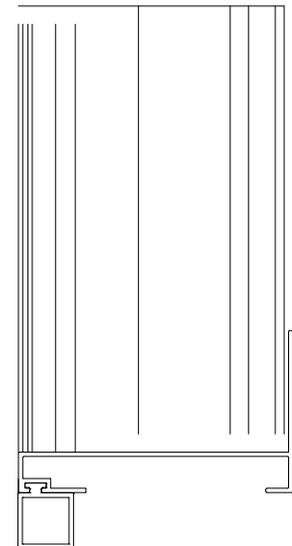
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



**GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)**

5WDRL-V LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

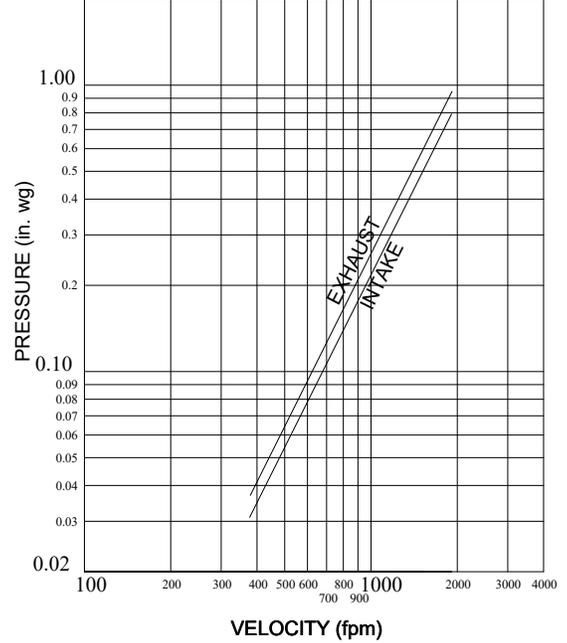
(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	779	8389	1691	100	A	3
29	3	865	9310	1877	99.9	A	3
29	3	993	10692	2156	98.2	B	3
50	8	568	6113	1232	99.3	A	3
50	8	776	8351	1684	95.9	B	3

Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



* Beginning point of WATER PENETRATION lies above

916.5 fpm

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_____ CFM / _____ FPM = _____ SQFT		
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		

5WDRL-V FREE AREA CHART

LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.17	0.30	0.43	0.56	0.69	0.82	0.95	1.08	1.21	1.33	1.46	1.59	1.72	1.85	1.98	2.11	2.24	2.37	2.50
18	0.35	0.62	0.88	1.14	1.41	1.67	1.94	2.20	2.46	2.73	2.99	3.25	3.52	3.78	4.05	4.31	4.57	4.84	5.10
24	0.53	0.93	1.33	1.73	2.13	2.52	2.92	3.32	3.72	4.12	4.52	4.92	5.32	5.71	6.11	6.51	6.91	7.31	7.71
30	0.71	1.24	1.78	2.31	2.84	3.38	3.91	4.44	4.98	5.51	6.05	6.58	7.11	7.65	8.18	8.71	9.25	9.78	10.31
36	0.89	1.56	2.23	2.90	3.56	4.23	4.90	5.57	6.24	6.90	7.57	8.24	8.91	9.58	10.24	10.91	11.58	12.25	12.92
42	1.07	1.87	2.68	3.48	4.28	5.08	5.89	6.69	7.49	8.30	9.10	9.90	10.71	11.51	12.31	13.11	13.92	14.72	15.52
48	1.25	2.19	3.13	4.06	5.00	5.94	6.88	7.81	8.75	9.69	10.63	11.56	12.50	13.44	14.38	15.31	16.25	17.19	18.13
54	1.43	2.50	3.57	4.65	5.72	6.79	7.86	8.94	10.01	11.08	12.15	13.23	14.30	15.37	16.44	17.52	18.59	19.66	20.73
60	1.61	2.82	4.02	5.23	6.44	7.65	8.85	10.06	11.27	12.47	13.68	14.89	16.10	17.30	18.51	19.72	20.92	22.13	23.34
66	1.79	3.13	4.47	5.81	7.16	8.50	9.84	11.18	12.52	13.87	15.21	16.55	17.89	19.23	20.58	21.92	23.26	24.60	25.94
72	1.97	3.45	4.92	6.40	7.88	9.35	10.83	12.31	13.78	15.26	16.74	18.21	19.69	21.17	22.64	24.12	25.60	27.07	28.55
78	2.15	3.76	5.37	6.98	8.59	10.21	11.82	13.43	15.04	16.65	18.26	19.87	21.49	23.10	24.71	26.32	27.93	29.54	31.15
84	2.33	4.07	5.82	7.57	9.31	11.06	12.80	14.55	16.30	18.04	19.79	21.54	23.28	25.03	26.77	28.52	30.27	32.01	33.76
90	2.51	4.39	6.27	8.15	10.03	11.91	13.79	15.67	17.55	19.44	21.32	23.20	25.08	26.96	28.84	30.72	32.60	34.48	36.36
96	2.69	4.70	6.72	8.73	10.75	12.77	14.78	16.80	18.81	20.83	22.84	24.86	26.88	28.89	30.91	32.92	34.94	36.95	38.97
102	2.87	5.02	7.17	9.32	11.47	13.62	15.77	17.92	20.07	22.22	24.37	26.52	28.67	30.82	32.97	35.12	37.27	39.42	41.57
108	3.05	5.33	7.62	9.90	12.19	14.47	16.76	19.04	21.33	23.61	25.90	28.18	30.47	32.75	35.04	37.32	39.61	41.89	44.18
114	3.23	5.64	8.07	10.49	12.91	15.33	17.75	20.17	22.59	25.01	27.43	29.85	32.27	34.69	37.10	39.52	41.94	44.36	46.78
120	3.41	5.95	8.52	11.07	13.62	16.18	18.73	21.29	23.84	26.40	28.95	31.51	34.06	36.62	39.17	41.73	44.28	46.83	49.39

5WDRL-MD STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned on 2.125" centers.

Birdscreen: 1/2" X 0.063 intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 80"W X 96"H louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

- 54.06% Free area
- Wind Driven Rain "B" Rating
- Miami Dade Approved

Available Finishes:

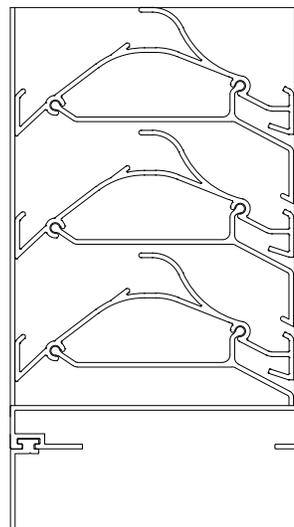
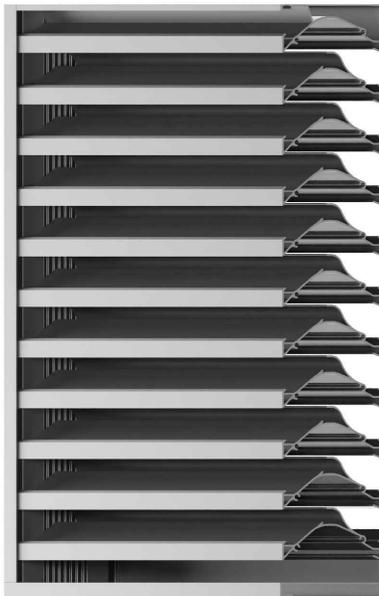
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



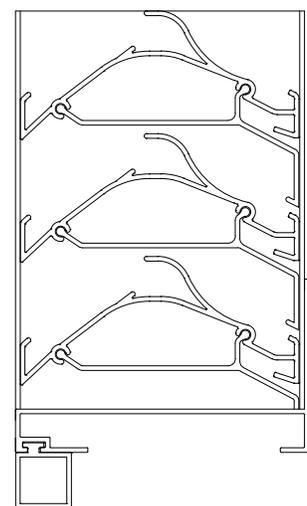
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**Miami Dade Approved
 NOA No. 20-1104.21**



FLANGE ADAPTER OPTION



**GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)**

5WDRL-MD LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

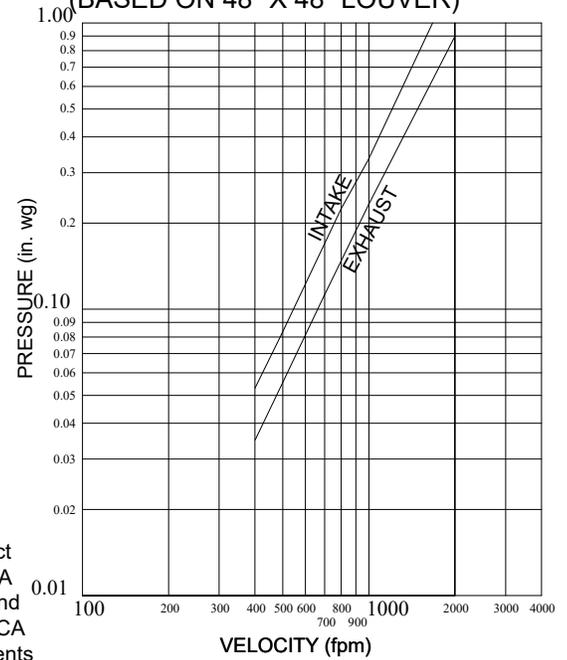
(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	299	3223	476	95.3	B	3
29	3	393	4234	628	85	C	3

Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



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$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} / \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

5WDRL-HP FREE AREA CHART LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.29	0.47	0.65	0.82	1.00	1.18	1.36	1.54	1.71	1.89	2.07	2.25	2.43	2.61	2.78	2.96	3.14	3.32	3.50
18	0.53	0.85	1.18	1.50	1.83	2.15	2.48	2.80	3.13	3.45	3.78	4.10	4.43	4.75	5.08	5.40	5.73	6.05	6.38
24	0.79	1.28	1.77	2.25	2.74	3.23	3.72	4.20	4.69	5.18	5.67	6.15	6.64	7.13	7.62	8.10	8.59	9.08	9.57
30	1.06	1.71	2.36	3.01	3.66	4.31	4.96	5.61	6.26	6.91	7.56	8.21	8.86	9.51	10.16	10.81	11.46	12.11	12.76
36	1.30	2.10	2.90	3.70	4.50	5.30	6.10	6.90	7.70	8.50	9.30	10.10	10.90	11.70	12.50	13.30	14.10	14.90	15.70
42	1.54	2.49	3.43	4.38	5.33	6.27	7.22	8.17	9.11	10.06	11.01	11.95	12.90	13.85	14.79	15.74	16.69	17.64	18.58
48	1.78	2.87	3.96	5.06	6.15	7.25	8.34	9.43	10.53	11.62	12.72	13.81	14.90	16.00	17.09	18.18	19.28	20.37	21.47
54	2.02	3.27	4.52	5.76	7.01	8.25	9.50	10.75	11.99	13.24	14.48	15.73	16.97	18.22	19.47	20.71	21.96	23.20	24.45
60	2.29	3.70	5.11	6.51	7.92	9.33	10.74	12.15	13.56	14.96	16.37	17.78	19.19	20.60	22.01	23.41	24.82	26.23	27.64
66	2.55	4.12	5.69	7.26	8.82	10.39	11.96	13.53	15.10	16.67	18.24	19.81	21.37	22.94	24.51	26.08	27.65	29.22	30.79
72	2.79	4.51	6.23	7.94	9.66	11.38	13.10	14.82	16.53	18.25	19.97	21.69	23.40	25.12	26.84	28.56	30.28	31.99	33.71
78	3.03	4.89	6.76	8.62	10.49	12.35	14.22	16.08	17.95	19.81	21.68	23.54	25.41	27.27	29.13	31.00	32.86	34.73	36.59
84	3.27	5.27	7.28	9.29	11.30	13.31	15.32	17.33	19.34	21.35	23.36	25.37	27.38	29.39	31.40	33.41	35.42	37.43	39.44
90	3.52	5.69	7.85	10.02	12.19	14.35	16.52	18.69	20.85	23.02	25.19	27.35	29.52	31.69	33.85	36.02	38.19	40.35	42.52
96	3.78	6.11	8.44	10.77	13.10	15.43	17.76	20.09	22.42	24.75	27.08	29.41	31.73	34.06	36.39	38.72	41.05	43.38	45.71
102	4.04	6.52	9.01	11.49	13.97	16.46	18.94	21.43	23.91	26.40	28.88	31.37	33.85	36.33	38.82	41.30	43.79	46.27	48.76
108	4.28	6.91	9.54	12.17	14.80	17.43	20.06	22.69	25.33	27.96	30.59	33.22	35.85	38.48	41.11	43.75	46.38	49.01	51.64
114	4.51	7.29	10.07	12.85	15.63	18.41	21.18	23.96	26.74	29.52	32.30	35.07	37.85	40.63	43.41	46.19	48.97	51.74	54.52
120	4.75	7.68	10.60	13.53	16.45	19.38	22.30	25.23	28.15	31.08	34.00	36.93	39.85	42.78	45.70	48.63	51.55	54.48	57.40

WDV-130 STATIONARY LOUVER

AMCA 540 & 550 Listed

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.063" nominal wall thickness, blades positioned vertically on 1.50" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 72"W X 120"H . Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

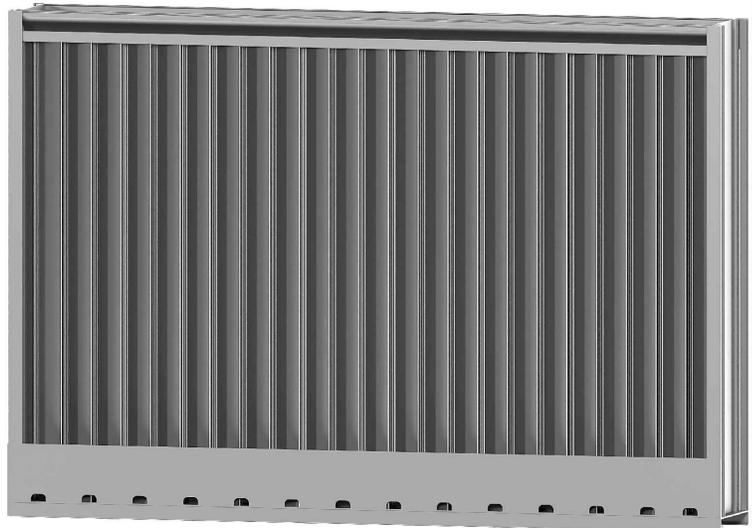
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

- 47.94% Free area
- Beginning point of water penetration lies above 1250 fpm
- "A" rating Water Penetration

Available Finishes:

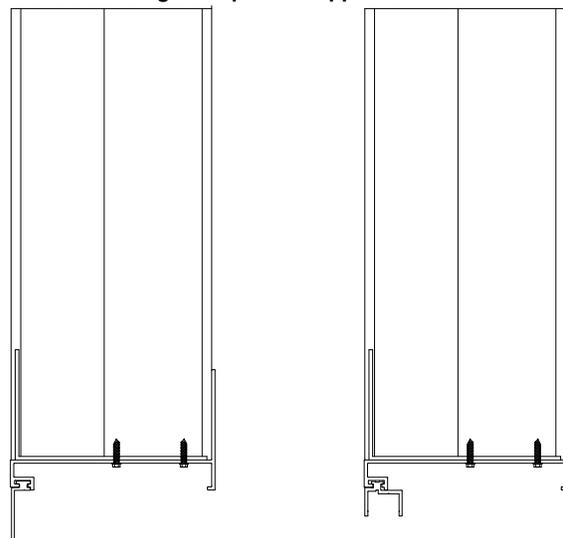
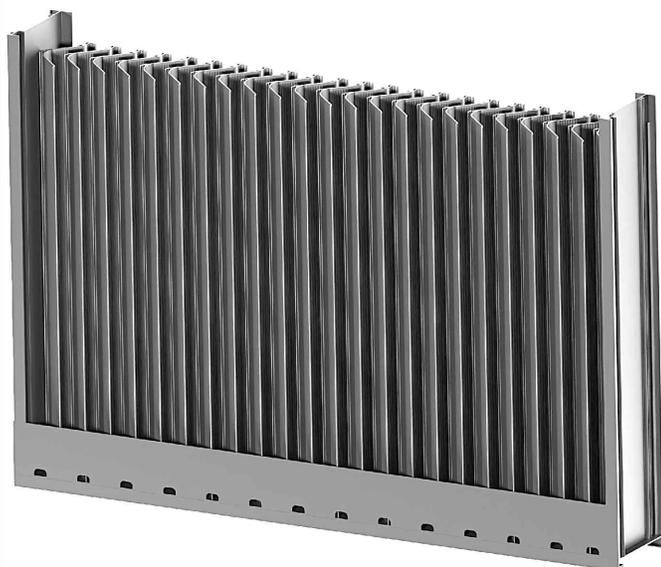
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration, air performance, and wind driven rain ratings for rectangular louvers only.



Miami-Dade County, Florida notice of acceptance #: 25-0107.02
Florida building code product approval # FL17741.1



FLANGE ADAPTER OPTION GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

WDV-130 LOUVER PERFORMANCE DATA

Test size 1m x 1m (39"x39")core
 41-5/8"w x 41-7/8"h Nominal (1.057m x 1.063m)

Wind Driven Rain Penetration Classes	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

* Discharge Loss Intake		
Wind Velocity (mph)	Class	
	Intake	Exhaust
29	2	3
50	2	3

* Discharge loss coefficient is the theoretical air flow of an opening divided by the actual flow rate of a louver the same size.

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	.0199 and below

(the higher the coefficient, the less resistance to airflow.)

75 mm/h (3in/h) Rainfall & 13 m/s (29 mph) Wind Velocity		
Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	*Water Penetration Classification
4.02 (792)	99.8	A
4.50 (886)	99.8	A
4.99 (983)	99.8	A

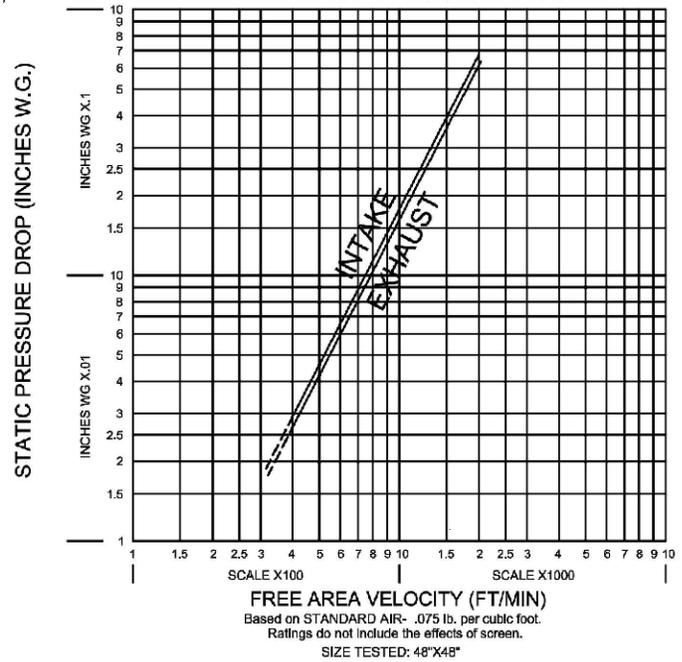
*AMCA Classes for maximum allowable water penetrations

200 mm/h (8in/h) Rainfall & 32 m/s (50 mph) Wind Velocity		
Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	*Water Penetration Classification
4.05 (798)	99.7	A
4.50 (885)	99.6	A
5.00 (985)	99.5	A

*AMCA Classes for maximum allowable water penetrations

Louver Height Inches	WDV-130 FREE AREA IN SQ. FT.											Louver Height Inches
	Width - Inches											
	12	18	24	30	36	42	48	54	60	66	72	
12	0.30	0.55	0.76	0.96	1.17	1.38	1.59	1.80	2.01	2.21	2.42	12
18	0.59	0.95	1.32	1.68	2.05	2.41	2.77	3.14	3.50	3.86	4.23	18
24	0.75	1.21	1.68	2.14	2.60	3.06	3.52	3.99	4.45	4.91	5.37	24
30	0.99	1.61	2.22	2.83	3.44	4.06	4.67	5.28	5.89	6.51	7.12	30
36	1.22	1.97	2.73	3.48	4.23	4.98	5.73	6.49	7.24	7.99	8.74	36
42	1.47	2.38	3.29	4.20	5.10	6.01	6.92	7.83	8.73	9.64	10.55	42
48	1.63	2.64	3.65	4.65	5.66	6.66	7.67	8.68	9.68	10.69	11.69	48
54	1.94	3.13	4.32	5.51	6.71	7.90	9.09	10.28	11.48	12.67	13.86	54
60	2.16	3.50	4.83	6.16	7.49	8.83	10.16	11.49	12.82	14.15	15.49	60
66	2.42	3.90	5.39	6.88	8.37	9.85	11.34	12.83	14.32	15.80	17.29	66
72	2.64	4.26	5.88	7.50	9.12	10.75	12.37	13.99	15.61	17.23	18.86	72
78	2.88	4.65	6.42	8.20	9.97	11.74	13.51	15.29	17.06	18.83	20.60	78
84	3.11	5.02	6.93	8.84	10.76	12.67	14.58	16.49	18.40	20.32	22.23	84
90	3.36	5.43	7.49	9.56	11.63	13.70	15.76	17.83	19.90	21.97	24.03	90
96	3.58	5.78	7.98	10.18	12.39	14.59	16.79	18.99	21.20	23.40	25.60	96
102	3.82	6.17	8.53	10.88	13.23	15.58	17.94	20.29	22.64	24.99	27.35	102
108	4.05	6.54	9.03	11.53	14.02	16.51	19.00	21.49	23.99	26.48	28.97	108
114	4.30	6.95	9.60	12.24	14.89	17.54	20.19	22.83	25.48	28.13	30.78	114
120	4.52	7.30	10.09	12.87	15.65	18.43	21.21	24.00	26.78	29.56	32.34	120

Air Flow Resistance



* Beginning point of WATER PENETRATION lies above **1250 fpm**



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APXS5 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.080" nominal wall thickness.

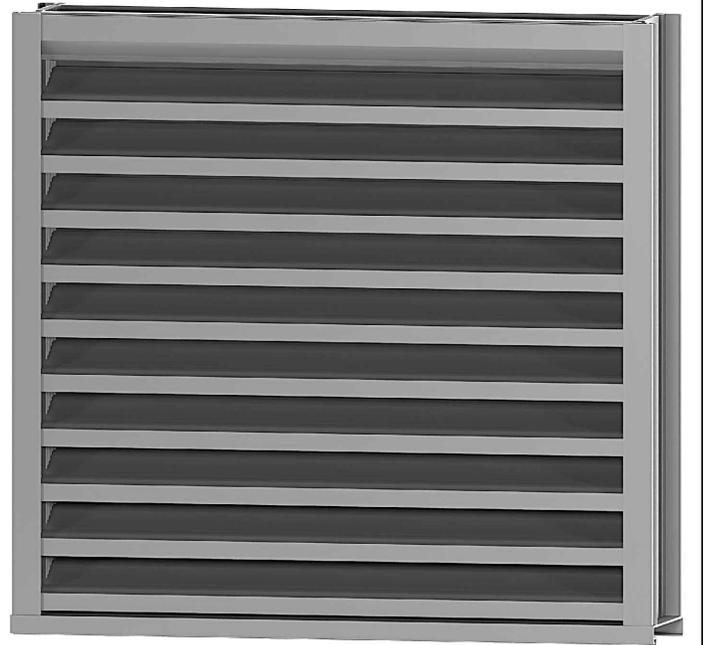
Blade: 6063-T6 extruded aluminum, 0.063" nominal wall thickness, blades placed on 2.00" centers.

Birdscreen: 1/2" x 0.063" intercrimped aluminum mesh in removable frame.

Finish: mill

Minimum size: 12"W x 12"H

maximum single section: 120"W x 84"H or 84"W x 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly



OPTIONS:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

PERFORMANCE:

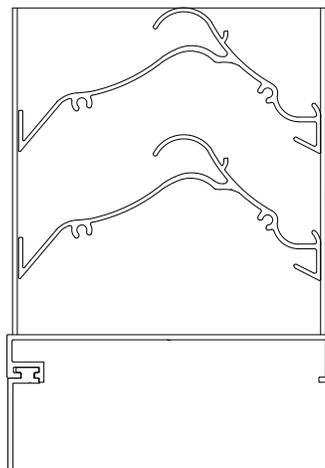
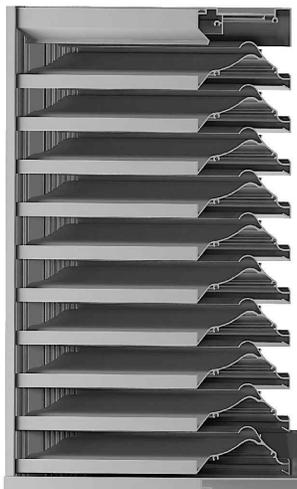
- 46.13% free area
- wind driven rain Class B

AVAILABLE FINISHES:

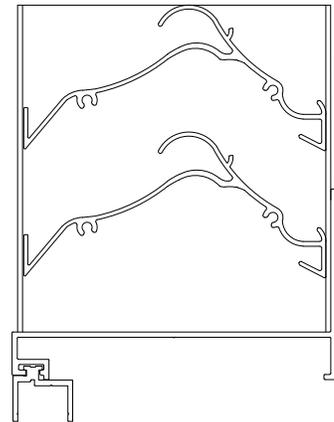
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APXS5 LOUVER PERFORMANCE DATA

75 mm/h (3 in/h) Rainfall & 13 m/s (29 mph) Wind Velocity				
Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	100.0	A
132 (0.7)	1421 (0.67)	258 (1.3)	100.0	A
197 (1.0)	2121 (1.00)	386 (2.0)	100.0	A
287 (1.5)	3089 (1.46)	562 (2.9)	100.0	A
382 (1.9)	4112 (1.94)	748 (3.8)	100.0	A
468 (2.4)	5038 (2.38)	916 (4.7)	99.2	A
583 (3.0)	6275 (2.96)	1141 (5.8)	97.9	B
678 (3.4)	7298 (3.44)	1327 (6.7)	96.1	B

202.4 mm/h (8 in/h) Rainfall & 22 m/s (50 mph) Wind Velocity				
Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)		B
85 (0.4)	915 (0.43)	166 (0.8)	96.9	B
187 (0.9)	2013 (0.95)	366 (1.9)	96.6	B
285 (1.4)	3068 (1.45)	558 (2.8)	97.2	B
396 (2.0)	4263 (2.01)	775 (3.9)	96.8	B
493 (2.5)	5307 (2.50)	965 (4.9)	96.5	B
572 (2.9)	6157 (2.91)	1119 (5.7)	96.3	B
674 (3.4)	7255 (3.42)	1319 (6.7)	95.7	B

Test size 1m x 1m (39"x39")core
 41-5/8"w x 41-7/8"h Nominal (1.057m x 1.063m)

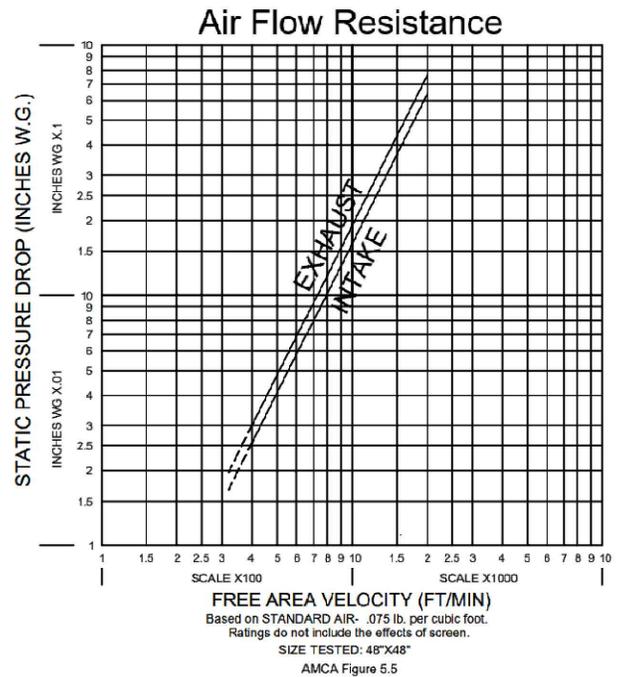
Wind Driven Rain Penetration Classes	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

* Discharge Loss Intake		
Wind Velocity (mph)	Class	
	Intake	Exhaust
29	2	3
50	2	3

* Discharge loss coefficient is the theoretical air flow of an opening divided by the actual flow rate of a louver the same size.

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	.0199 and below

(the higher the coefficient, the less resistance to airflow.)



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Louver Height Inches	Width - Inches																Louver Height Inches			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102		108	114	120
12	0.31	0.50	0.68	0.87	1.06	1.25	1.44	1.63	1.82	2.01	2.20	2.39	2.57	2.76	2.95	3.14	3.33	3.52	3.71	12
18	0.48	0.77	1.06	1.35	1.65	1.94	2.23	2.52	2.82	3.11	3.40	3.70	3.99	4.28	4.57	4.87	5.16	5.45	5.74	18
24	0.67	1.08	1.49	1.91	2.32	2.73	3.14	3.55	3.97	4.38	4.79	5.20	5.61	6.03	6.44	6.85	7.26	7.68	8.09	24
30	0.97	1.56	2.15	2.75	3.34	3.93	4.53	5.12	5.72	6.31	6.90	7.50	8.09	8.69	9.28	9.87	10.47	11.06	11.66	30
36	1.13	1.83	2.53	3.23	3.92	4.62	5.32	6.02	6.72	7.41	8.11	8.81	9.51	10.20	10.90	11.60	12.30	12.99	13.69	36
42	1.40	2.27	3.13	4.00	4.86	5.72	6.59	7.45	8.32	9.18	10.04	10.91	11.77	12.64	13.50	14.36	15.23	16.09	16.96	42
48	1.57	2.54	3.51	4.48	5.44	6.41	7.38	8.35	9.31	10.28	11.25	12.22	13.19	14.15	15.12	16.09	17.06	18.02	18.99	48
54	1.77	2.85	3.94	5.03	6.11	7.20	8.29	9.38	10.46	11.55	12.64	13.72	14.81	15.90	16.99	18.07	19.16	20.25	21.33	54
60	2.06	3.33	4.60	5.87	7.14	8.41	9.68	10.94	12.21	13.48	14.75	16.02	17.29	18.56	19.83	21.10	22.37	23.63	24.90	60
66	2.23	3.60	4.98	6.35	7.72	9.09	10.47	11.84	13.21	14.59	15.96	17.33	18.70	20.08	21.45	22.82	24.19	25.57	26.94	66
72	2.42	3.92	5.41	6.90	8.39	9.89	11.38	12.87	14.36	15.85	17.35	18.84	20.33	21.82	23.31	24.81	26.30	27.79	29.28	72
78	2.72	4.39	6.07	7.74	9.42	11.09	12.76	14.44	16.11	17.79	19.46	21.13	22.81	24.48	26.16	27.83	29.50	31.18	32.85	78
84	2.89	4.67	6.44	8.22	10.00	11.78	13.56	15.33	17.11	18.89	20.67	22.44	24.22	26.00	27.78	29.55	31.33	33.11	34.89	84
90	3.08	4.98	6.88	8.77	10.67	12.57	14.47	16.36	18.26	20.16	22.05	23.95	25.85	27.74	29.64	31.54	33.44	35.33	37.23	90
96	3.38	5.46	7.54	9.62	11.69	13.77	15.85	17.93	20.01	22.09	24.17	26.25	28.33	30.40	32.48	34.56	36.64	38.72	40.80	96
102	3.55	5.73	7.91	10.10	12.28	14.46	16.64	18.83	21.01	23.19	25.37	27.56	29.74	31.92	34.10	36.29	38.47	40.65	42.84	102
108	3.74	6.04	8.35	10.65	12.95	15.25	17.55	19.86	22.16	24.46	26.76	29.06	31.37	33.67	35.97	38.27	40.57	42.88	45.18	108
114	4.04	6.52	9.00	11.49	13.97	16.46	18.94	21.42	23.91	26.39	28.88	31.36	33.84	36.33	38.81	41.30	43.78	46.26	48.75	114
120	4.21	6.79	9.38	11.97	14.56	17.14	19.73	22.32	24.91	27.49	30.08	32.67	35.26	37.85	40.43	43.02	45.61	48.20	50.78	120

6D375 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6" depth, 0.125 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.125 nominal wall thickness, blades positioned at 37.5 degree angle on 5.938" centers.

Birdscreen: 1/2" X 0.063 intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

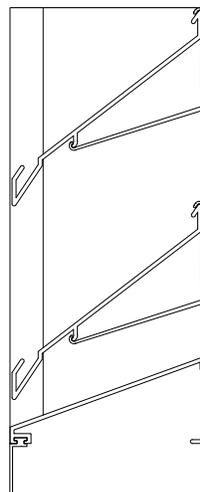
- 57.31% Free area
- Beginning point of water penetration is 962 fpm

Available Finishes:

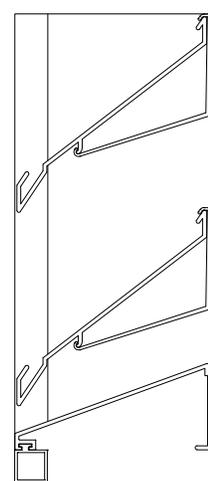
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION

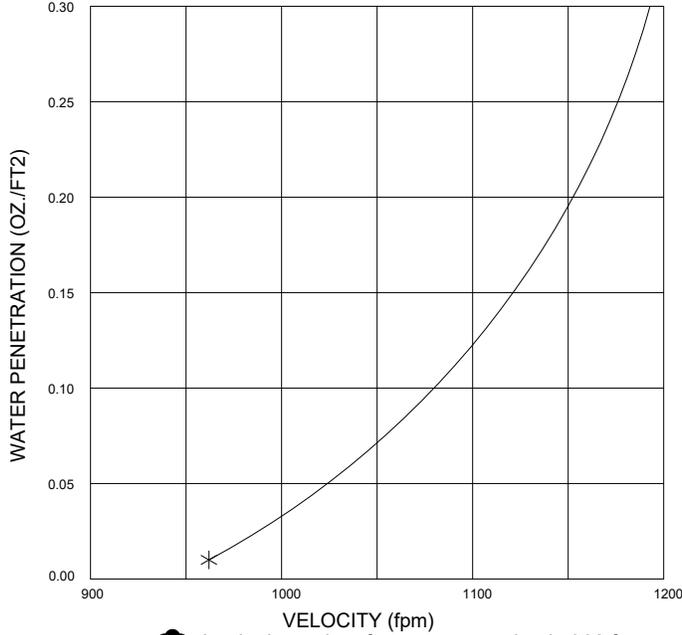


GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

6D375 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)



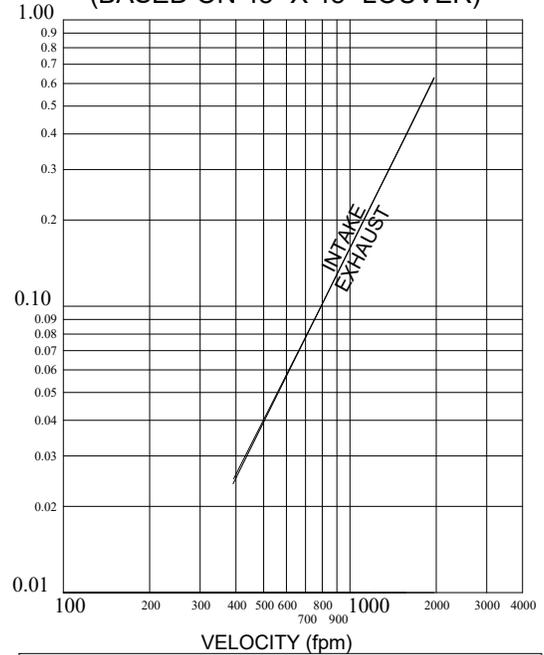
 - beginning point of water penetration is 962 fpm

WATER PENETRATION

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} / \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA



AIR PERFORMANCE, LLC. CERTIFIES THAT THE PRODUCT LINE SHOWN HEREIN IS LICENSED TO BEAR THE AMCA SEAL. THE RATINGS SHOWN ARE BASED ON TESTS AND PROCEDURES PERFORMED IN ACCORDANCE WITH AMCA PUBLICATION 511 AND COMPLY WITH THE REQUIREMENTS OF THE AMCA CERTIFIED RATINGS PROGRAM. THE AMCA CERTIFIED RATING SEAL APPLIES TO WATER PENETRATION AND AIR PERFORMANCE RATINGS FOR RECTANGULAR LOUVERS ONLY.

6D375 FREE AREA CHAT

LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.28	0.46	0.63	0.80	0.98	1.15	1.33	1.50	1.67	1.85	2.02	2.19	2.37	2.54	2.72	2.89	3.06	3.24	3.41
18	0.56	0.90	1.24	1.58	1.92	2.27	2.61	2.95	3.29	3.63	3.98	4.32	4.66	5.00	5.34	5.69	6.03	6.37	6.71
24	0.83	1.34	1.85	2.36	2.87	3.38	3.89	4.40	4.91	5.42	5.93	6.44	6.95	7.46	7.97	8.48	8.99	9.50	10.01
30	1.10	1.78	2.46	3.14	3.82	4.50	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.92	10.60	11.28	11.96	12.64	13.32
36	1.38	2.22	3.07	3.92	4.76	5.61	6.46	7.30	8.15	9.00	9.84	10.69	11.54	12.38	13.23	14.08	14.92	15.77	16.62
42	1.65	2.66	3.68	4.69	5.71	6.72	7.74	8.75	9.77	10.78	11.80	12.81	13.83	14.84	15.86	16.88	17.89	18.91	19.92
48	1.92	3.11	4.29	5.47	6.66	7.84	9.17	10.21	11.39	12.57	13.76	14.94	16.12	17.31	18.49	19.67	20.86	22.04	23.22
54	2.20	3.55	4.90	6.25	7.60	8.95	10.31	11.66	13.01	14.36	15.71	17.06	18.41	19.77	21.12	22.47	23.82	25.17	26.52
60	2.47	3.99	5.51	7.03	8.55	10.07	11.59	13.11	14.63	16.15	17.67	19.19	20.71	22.23	23.75	25.27	26.79	28.31	29.83
66	2.74	4.43	6.12	7.81	9.50	11.18	12.87	14.56	16.25	17.94	19.62	21.31	23.00	24.69	26.38	28.06	29.75	31.44	33.13
72	3.02	4.87	6.73	8.59	10.44	12.30	14.15	16.01	17.87	19.72	21.58	23.44	25.29	27.15	29.01	30.86	32.72	34.57	36.43
78	3.29	5.31	7.34	9.36	11.39	13.41	15.44	17.46	19.49	21.51	23.54	25.56	27.59	29.61	31.63	33.66	35.68	37.71	39.73
84	3.56	5.76	7.95	10.14	12.33	14.53	16.72	18.91	21.11	23.30	25.49	27.69	29.88	32.07	34.26	36.46	38.65	40.84	43.04
90	3.84	6.20	8.56	10.92	13.28	15.64	18.00	20.36	22.73	25.09	27.45	29.81	32.17	34.53	36.89	39.25	41.61	43.98	46.34
96	4.11	6.64	9.17	11.70	14.23	16.76	19.29	21.82	24.35	26.87	29.40	31.93	34.46	36.99	39.52	42.05	44.58	47.11	49.64
102	4.38	7.08	9.78	12.48	15.17	17.87	20.57	23.27	25.97	28.66	31.36	34.06	36.76	39.45	42.15	44.85	47.55	50.24	52.94
108	4.66	7.52	10.39	13.25	16.12	18.99	21.85	24.72	27.58	30.45	33.32	36.18	39.05	41.91	44.78	47.65	50.51	53.38	56.24
114	4.93	7.96	11.00	14.03	17.07	20.10	23.14	26.17	29.20	32.24	35.27	38.31	41.34	44.38	47.41	50.44	53.48	56.51	59.55
120	5.20	8.41	11.61	14.81	18.01	21.22	24.42	27.62	30.82	34.03	37.23	40.43	43.63	46.84	50.04	53.24	56.44	59.65	62.85

6D375-081 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6" depth, 0.125 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned at 37.5 degree angle on 5.938" centers.

Birdscreen: 1/2" X 0.063 intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

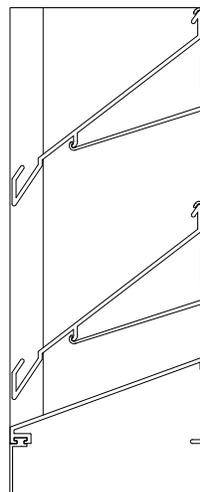
- 57.31% Free area
- Beginning point of water penetration is 962 fpm

Available Finishes:

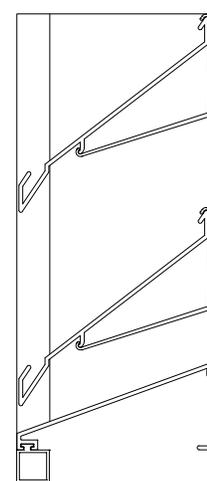
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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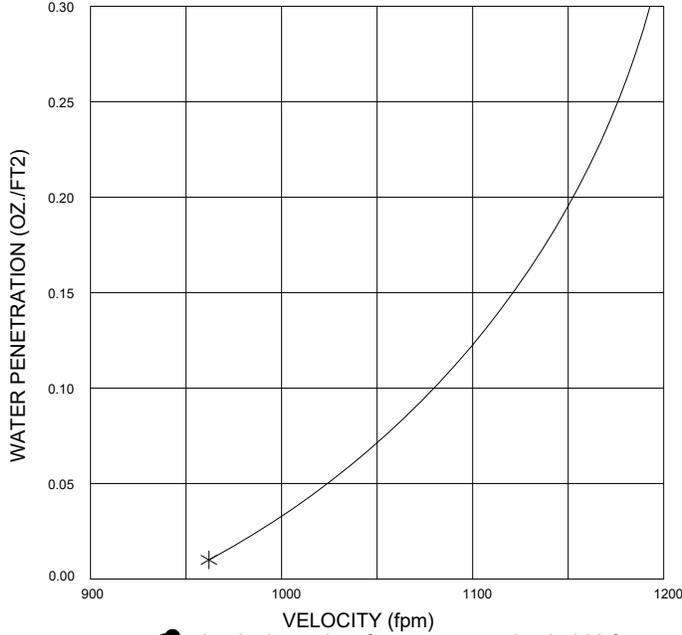
FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

6D375.081 LOUVER PERFORMANCE DATA

WATER PENETRATION (BASED ON 48" X 48" LOUVER)

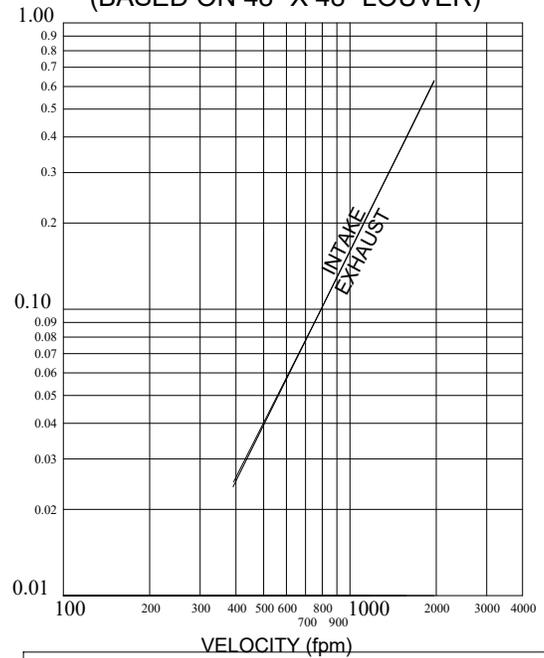


 - beginning point of water penetration is 962 fpm

WATER PENETRATION

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

PRESSURE DROP (BASED ON 48" X 48" LOUVER)



$\frac{\text{CFM}}{\text{SQFT}} = \text{FPM}$

AIR FLOW VOLUME / FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION = REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA



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6D375.081 FREE AREA CHAT LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.28	0.46	0.63	0.80	0.98	1.15	1.33	1.50	1.67	1.85	2.02	2.19	2.37	2.54	2.72	2.89	3.06	3.24	3.41
18	0.56	0.90	1.24	1.58	1.92	2.27	2.61	2.95	3.29	3.63	3.98	4.32	4.66	5.00	5.34	5.69	6.03	6.37	6.71
24	0.83	1.34	1.85	2.36	2.87	3.38	3.89	4.40	4.91	5.42	5.93	6.44	6.95	7.46	7.97	8.48	8.99	9.50	10.01
30	1.10	1.78	2.46	3.14	3.82	4.50	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.92	10.60	11.28	11.96	12.64	13.32
36	1.38	2.22	3.07	3.92	4.76	5.61	6.46	7.30	8.15	9.00	9.84	10.69	11.54	12.38	13.23	14.08	14.92	15.77	16.62
42	1.65	2.66	3.68	4.69	5.71	6.72	7.74	8.75	9.77	10.78	11.80	12.81	13.83	14.84	15.86	16.88	17.89	18.91	19.92
48	1.92	3.11	4.29	5.47	6.66	7.84	9.17	10.21	11.39	12.57	13.76	14.94	16.12	17.31	18.49	19.67	20.86	22.04	23.22
54	2.20	3.55	4.90	6.25	7.60	8.95	10.31	11.66	13.01	14.36	15.71	17.06	18.41	19.77	21.12	22.47	23.82	25.17	26.52
60	2.47	3.99	5.51	7.03	8.55	10.07	11.59	13.11	14.63	16.15	17.67	19.19	20.71	22.23	23.75	25.27	26.79	28.31	29.83
66	2.74	4.43	6.12	7.81	9.50	11.18	12.87	14.56	16.25	17.94	19.62	21.31	23.00	24.69	26.38	28.06	29.75	31.44	33.13
72	3.02	4.87	6.73	8.59	10.44	12.30	14.15	16.01	17.87	19.72	21.58	23.44	25.29	27.15	29.01	30.86	32.72	34.57	36.43
78	3.29	5.31	7.34	9.36	11.39	13.41	15.44	17.46	19.49	21.51	23.54	25.56	27.59	29.61	31.63	33.66	35.68	37.71	39.73
84	3.56	5.76	7.95	10.14	12.33	14.53	16.72	18.91	21.11	23.30	25.49	27.69	29.88	32.07	34.26	36.46	38.65	40.84	43.04
90	3.84	6.20	8.56	10.92	13.28	15.64	18.00	20.36	22.73	25.09	27.45	29.81	32.17	34.53	36.89	39.25	41.61	43.98	46.34
96	4.11	6.64	9.17	11.70	14.23	16.76	19.29	21.82	24.35	26.87	29.40	31.93	34.46	36.99	39.52	42.05	44.58	47.11	49.64
102	4.38	7.08	9.78	12.48	15.17	17.87	20.57	23.27	25.97	28.66	31.36	34.06	36.76	39.45	42.15	44.85	47.55	50.24	52.94
108	4.66	7.52	10.39	13.25	16.12	18.99	21.85	24.72	27.58	30.45	33.32	36.18	39.05	41.91	44.78	47.65	50.51	53.38	56.24
114	4.93	7.96	11.00	14.03	17.07	20.10	23.14	26.17	29.20	32.24	35.27	38.31	41.34	44.38	47.41	50.44	53.48	56.51	59.55
120	5.20	8.41	11.61	14.81	18.01	21.22	24.42	27.62	30.82	34.03	37.23	40.43	43.63	46.84	50.04	53.24	56.44	59.65	62.85

6Z375 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.125" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.125" nominal wall thickness, blades positioned at 37.5 degree angle on 5.938" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

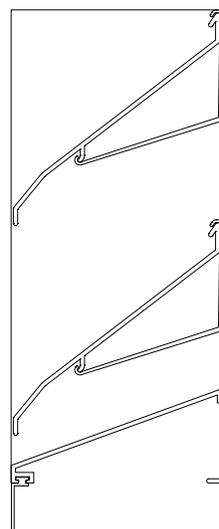
- 57.31% Free area
- Beginning point of water penetration is 824 fpm

Available Finishes:

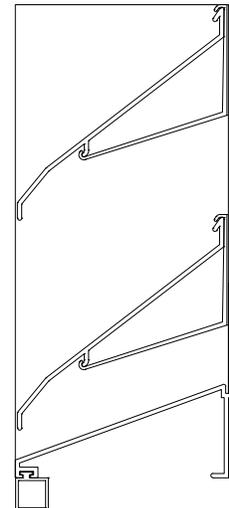
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION

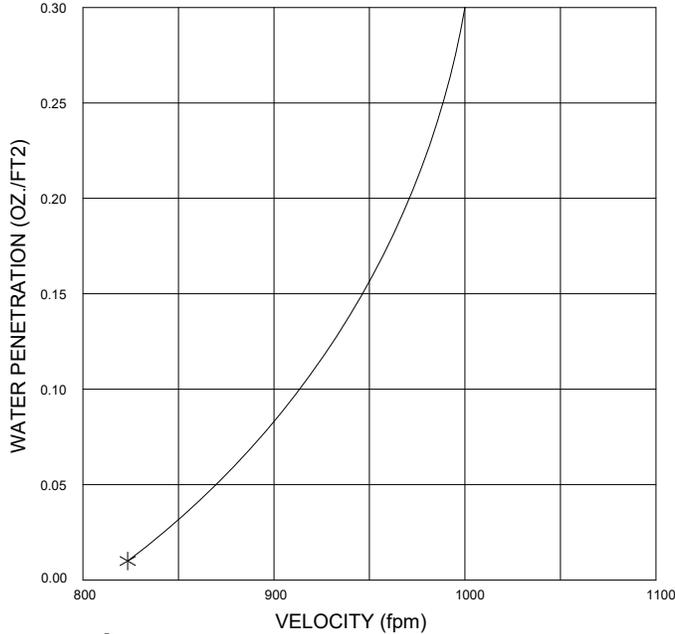


GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

6Z375 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)



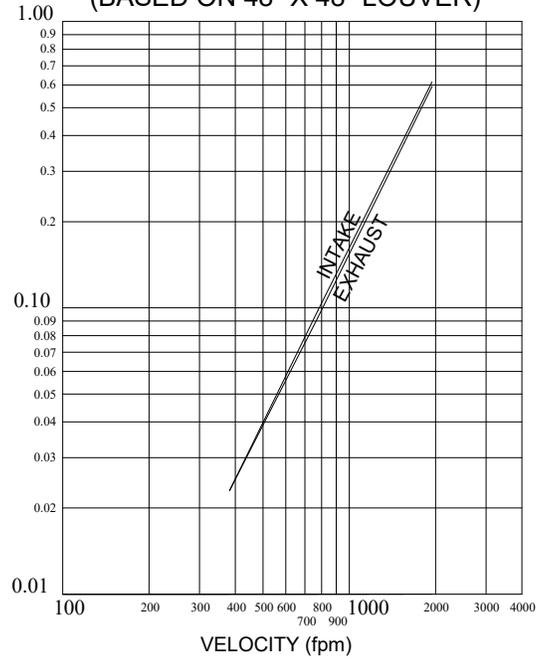
● - beginning point of water penetration is 824.4 fpm

WATER PENETRATION

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



_____ CFM / _____ FPM = _____ SQFT

AIR FLOW VOLUME FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA



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6Z375 FREE AREA CHAT LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.28	0.46	0.63	0.80	0.98	1.15	1.33	1.50	1.67	1.85	2.02	2.19	2.37	2.54	2.72	2.89	3.06	3.24	3.41
18	0.56	0.90	1.24	1.58	1.92	2.27	2.61	2.95	3.29	3.63	3.98	4.32	4.66	5.00	5.34	5.69	6.03	6.37	6.71
24	0.83	1.34	1.85	2.36	2.87	3.38	3.89	4.40	4.91	5.42	5.93	6.44	6.95	7.46	7.97	8.48	8.99	9.50	10.01
30	1.10	1.78	2.46	3.14	3.82	4.50	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.92	10.60	11.28	11.96	12.64	13.32
36	1.38	2.22	3.07	3.92	4.76	5.61	6.46	7.30	8.15	9.00	9.84	10.69	11.54	12.38	13.23	14.08	14.92	15.77	16.62
42	1.65	2.66	3.68	4.69	5.71	6.72	7.74	8.75	9.77	10.78	11.80	12.81	13.83	14.84	15.86	16.88	17.89	18.91	19.92
48	1.92	3.11	4.29	5.47	6.66	7.84	9.17	10.21	11.39	12.57	13.76	14.94	16.12	17.31	18.49	19.67	20.86	22.04	23.22
54	2.20	3.55	4.90	6.25	7.60	8.95	10.31	11.66	13.01	14.36	15.71	17.06	18.41	19.77	21.12	22.47	23.82	25.17	26.52
60	2.47	3.99	5.51	7.03	8.55	10.07	11.59	13.11	14.63	16.15	17.67	19.19	20.71	22.23	23.75	25.27	26.79	28.31	29.83
66	2.74	4.43	6.12	7.81	9.50	11.18	12.87	14.56	16.25	17.94	19.62	21.31	23.00	24.69	26.38	28.06	29.75	31.44	33.13
72	3.02	4.87	6.73	8.59	10.44	12.30	14.15	16.01	17.87	19.72	21.58	23.44	25.29	27.15	29.01	30.86	32.72	34.57	36.43
78	3.29	5.31	7.34	9.36	11.39	13.41	15.44	17.46	19.49	21.51	23.54	25.56	27.59	29.61	31.63	33.66	35.68	37.71	39.73
84	3.56	5.76	7.95	10.14	12.33	14.53	16.72	18.91	21.11	23.30	25.49	27.69	29.88	32.07	34.26	36.46	38.65	40.84	43.04
90	3.84	6.20	8.56	10.92	13.28	15.64	18.00	20.36	22.73	25.09	27.45	29.81	32.17	34.53	36.89	39.25	41.61	43.98	46.34
96	4.11	6.64	9.17	11.70	14.23	16.76	19.29	21.82	24.35	26.87	29.40	31.93	34.46	36.99	39.52	42.05	44.58	47.11	49.64
102	4.38	7.08	9.78	12.48	15.17	17.87	20.57	23.27	25.97	28.66	31.36	34.06	36.76	39.45	42.15	44.85	47.55	50.24	52.94
108	4.66	7.52	10.39	13.25	16.12	18.99	21.85	24.72	27.58	30.45	33.32	36.18	39.05	41.91	44.78	47.65	50.51	53.38	56.24
114	4.93	7.96	11.00	14.03	17.07	20.10	23.14	26.17	29.20	32.24	35.27	38.31	41.34	44.38	47.41	50.44	53.48	56.51	59.55
120	5.20	8.41	11.61	14.81	18.01	21.22	24.42	27.62	30.82	34.03	37.23	40.43	43.63	46.84	50.04	53.24	56.44	59.65	62.85

APD6 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6.20" depth, .125" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37 degree angle on 4.64" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

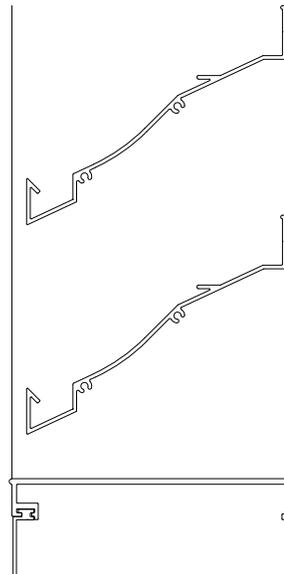
- 54.44% Free area
- Beginning point of water penetration Lies above 1250 fpm

Available Finishes:

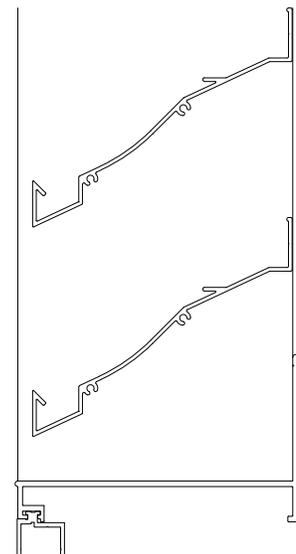
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APD6 LOUVER PERFORMANCE DATA

WATER PENETRATION

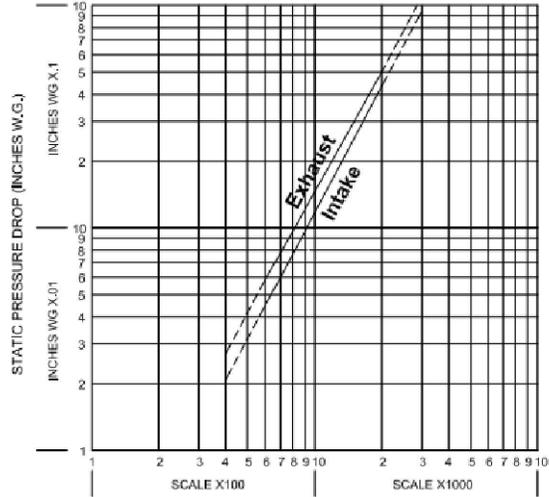
(BASED ON 48" X 48" LOUVER)

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

* Beginning point of WATER PENETRATION lies above
1250 fpm

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



FREE AREA VELOCITY (FT/MIN)

Based on STANDARD AIR: .075 lb. per cubic foot.
 Ratings do not include the effects of screen.
 Test size 48" x 48"



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<input type="text"/> CFM / <small>AIR FLOW VOLUME</small>	<input type="text"/> FPM = <small>FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION</small>	<input type="text"/> SQFT <small>REQUIRED LOUVER FREE AREA</small>
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		

Louver Height Inches	Width - Inches																Louver Height Inches			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102		108	114	120
12	0.24	0.39	0.54	0.69	0.83	0.98	1.13	1.28	1.43	1.58	1.73	1.87	2.02	2.17	2.32	2.47	2.62	2.76	2.91	12
18	0.47	0.76	1.05	1.34	1.63	1.92	2.21	2.51	2.80	3.09	3.38	3.67	3.96	4.25	4.54	4.83	5.12	5.41	5.70	18
24	0.70	1.14	1.57	2.00	2.43	2.86	3.30	3.73	4.16	4.59	5.03	5.46	5.89	6.32	6.76	7.19	7.62	8.05	8.49	24
30	0.93	1.51	2.08	2.66	3.23	3.81	4.38	4.95	5.53	6.10	6.68	7.25	7.83	8.40	8.98	9.55	10.12	10.70	11.27	30
36	1.16	1.88	2.60	3.31	4.03	4.75	5.46	6.18	6.90	7.61	8.33	9.05	9.76	10.48	11.19	11.91	12.63	13.34	14.06	36
42	1.63	2.63	3.63	4.63	5.63	6.63	7.63	8.63	9.63	10.63	11.63	12.63	13.63	14.63	15.63	16.63	17.63	18.63	19.63	42
48	1.86	3.00	4.14	5.28	6.43	7.57	8.71	9.85	11.00	12.14	13.28	14.42	15.57	16.71	17.85	18.99	20.14	21.28	22.42	48
54	2.09	3.37	4.66	5.94	7.22	8.51	9.79	11.08	12.36	13.65	14.93	16.22	17.50	18.78	20.07	21.35	22.64	23.92	25.21	54
60	2.32	3.74	5.17	6.60	8.02	9.45	10.88	12.30	13.73	15.16	16.58	18.01	19.44	20.86	22.29	23.71	25.14	26.57	27.99	60
66	2.55	4.12	5.69	7.25	8.82	10.39	11.96	13.53	15.10	16.66	18.23	19.80	21.37	22.94	24.51	26.08	27.64	29.21	30.78	66
72	2.78	4.49	6.20	7.91	9.62	11.33	13.04	14.75	16.46	18.17	19.88	21.59	23.30	25.02	26.73	28.44	30.15	31.86	33.57	72
78	3.01	4.86	6.72	8.57	10.42	12.27	14.12	15.98	17.83	19.68	21.53	23.39	25.24	27.09	28.94	30.80	32.65	34.50	36.35	78
84	3.47	5.61	7.74	9.88	12.02	14.15	16.29	18.43	20.56	22.70	24.84	26.97	29.11	31.25	33.38	35.52	37.65	39.79	41.93	84
90	3.70	5.98	8.26	10.54	12.82	15.09	17.37	19.65	21.93	24.21	26.49	28.77	31.04	33.32	35.60	37.88	40.16	42.44	44.71	90
96	3.93	6.35	8.77	11.19	13.61	16.04	18.46	20.88	23.30	25.72	28.14	30.56	32.98	35.40	37.82	40.24	42.66	45.08	47.50	96
102	4.16	6.73	9.29	11.85	14.41	16.98	19.54	22.10	24.66	27.23	29.79	32.35	34.91	37.48	40.04	42.60	45.16	47.73	50.29	102
108	4.39	7.10	9.80	12.51	15.21	17.92	20.62	23.33	26.03	28.73	31.44	34.14	36.85	39.55	42.26	44.96	47.67	50.37	53.07	108
114	4.63	7.47	10.32	13.16	16.01	18.86	21.70	24.55	27.40	30.24	33.09	35.94	38.78	41.63	44.48	47.32	50.17	53.01	55.86	114
120	4.86	7.84	10.83	13.82	16.81	19.80	22.79	25.78	28.76	31.75	34.74	37.73	40.72	43.71	46.69	49.68	52.67	55.66	58.65	120

APHFA-6 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6.20" depth, .125" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37 degree angle on 4.64" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

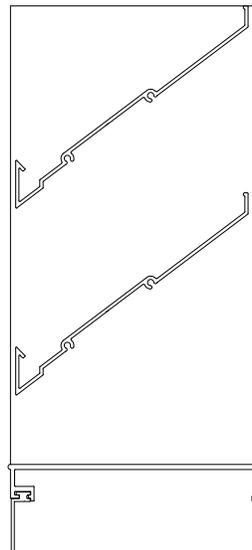
- 59.69% Free area
- Beginning point of water penetration Lies at 915 fpm

Available Finishes:

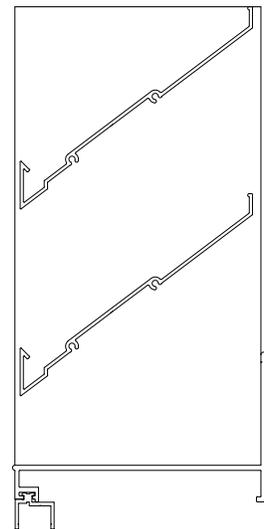
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



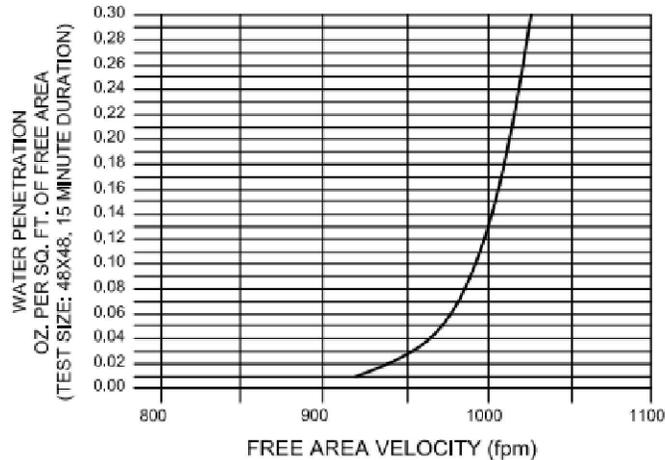
GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

APHFA-6 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

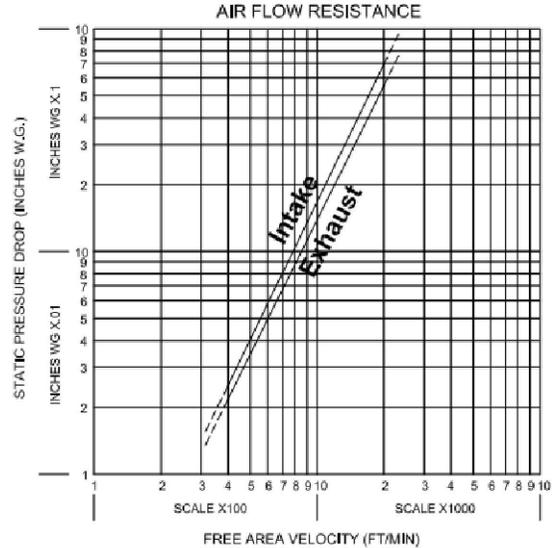
AMCA defines the beginning point of water penetration as the free area velocity at which .01 ounces or less of water per square foot of louver free area is measured to pass through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides test data for the comparison of louver designs as to efficiency in resisting the penetration of rainfall under specific laboratory test conditions



* Beginning point of WATER PENETRATION lies above
915 fpm

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



$$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} \div \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA



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Louver Height Inches	Width - Inches																	Louver Height Inches		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108		114	120
12	0.33	0.54	0.75	0.95	1.16	1.36	1.57	1.77	1.98	2.19	2.39	2.60	2.80	3.01	3.21	3.42	3.63	3.83	4.04	12
18	0.56	0.91	1.26	1.61	1.96	2.30	2.65	3.00	3.35	3.69	4.04	4.39	4.74	5.08	5.43	5.78	6.13	6.47	6.82	18
24	0.86	1.39	1.93	2.46	2.99	3.52	4.05	4.58	5.11	5.64	6.18	6.71	7.24	7.77	8.30	8.83	9.36	9.89	10.43	24
30	1.18	1.90	2.62	3.35	4.07	4.80	5.52	6.24	6.97	7.69	8.42	9.14	9.86	10.59	11.31	12.04	12.76	13.48	14.21	30
36	1.41	2.27	3.14	4.00	4.87	5.74	6.60	7.47	8.33	9.20	10.07	10.93	11.80	12.66	13.53	14.39	15.26	16.13	16.99	36
42	1.71	2.75	3.80	4.85	5.90	6.95	8.00	9.05	10.10	11.15	12.20	13.25	14.30	15.35	16.40	17.45	18.50	19.55	20.60	42
48	2.03	3.29	4.54	5.79	7.04	8.30	9.55	10.80	12.05	13.30	14.56	15.81	17.06	18.31	19.56	20.82	22.07	23.32	24.57	48
54	2.27	3.66	5.05	6.45	7.84	9.24	10.63	12.02	13.42	14.81	16.21	17.60	18.99	20.39	21.78	23.18	24.57	25.96	27.36	54
60	2.56	4.14	5.72	7.30	8.87	10.45	12.03	13.61	15.18	16.76	18.34	19.92	21.49	23.07	24.65	26.23	27.80	29.38	30.96	60
66	2.88	4.65	6.42	8.19	9.96	11.73	13.50	15.27	17.04	18.81	20.58	22.35	24.12	25.89	27.66	29.43	31.20	32.97	34.74	66
72	3.11	5.02	6.93	8.84	10.76	12.67	14.58	16.49	18.41	20.32	22.23	24.14	26.05	27.97	29.88	31.79	33.70	35.61	37.53	72
78	3.41	5.50	7.60	9.69	11.79	13.88	15.98	18.08	20.17	22.27	24.36	26.46	28.56	30.65	32.75	34.84	36.94	39.03	41.13	78
84	3.72	6.01	8.30	10.58	12.87	15.16	17.45	19.74	22.03	24.32	26.60	28.89	31.18	33.47	35.76	38.05	40.33	42.62	44.91	84
90	3.95	6.38	8.81	11.24	13.67	16.10	18.53	20.96	23.39	25.82	28.25	30.68	33.11							
96	4.25	6.86	9.48	12.09	14.70	17.32	19.93	22.55	25.16	27.77	30.39	33.00	35.62							
102	4.56	7.37	10.17	12.98	15.79	18.59	21.40	24.21	27.01	29.82	32.63	35.43	38.24							
108	4.79	7.74	10.69	13.64	16.59	19.53	22.48	25.43	28.38	31.33	34.28	37.23	40.18							
114	5.09	8.22	11.35	14.49	17.62	20.75	23.88	27.02	30.15	33.28	36.41	39.54	42.68							
120	5.40	8.73	12.05	15.38	18.70	22.03	25.35	28.68	32.00	35.33	38.65	41.98	45.30							

D-HV-6 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6.20" depth, .125" nominal wall thickness.

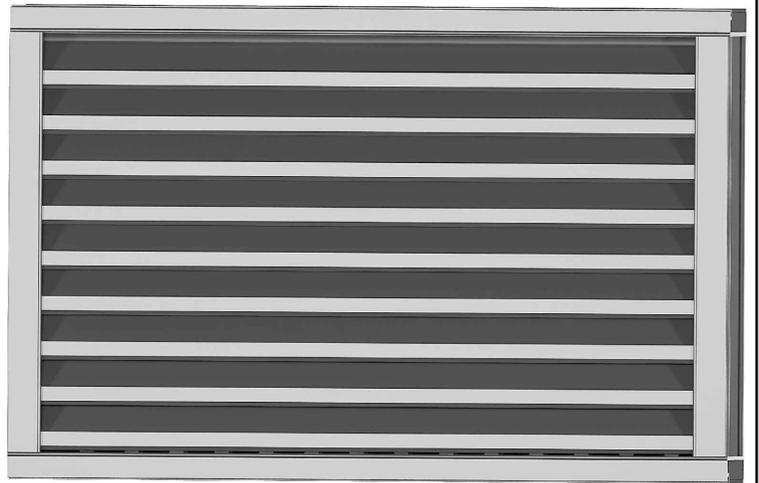
Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, Blades are positioned on 1.500" center horizontally and vertically.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 72"W X 72"H . Louvers exceeding max single section size will be built in multiple sections and require field assembly



Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

- 40.75% Free area
- AMCA 540 & 550 Rated

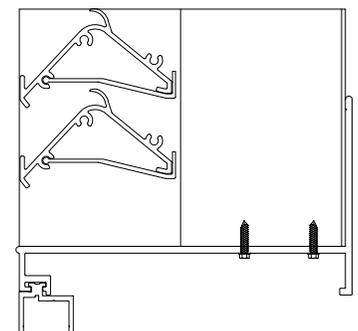
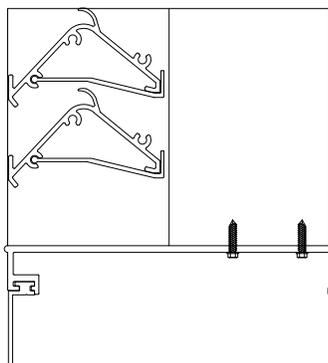
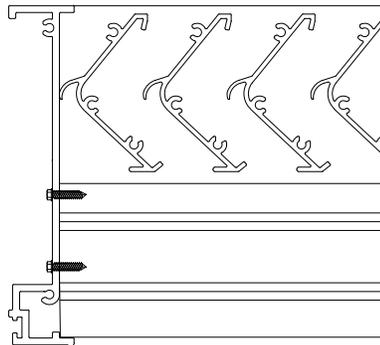
Available Finishes:

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize

Florida product approval #FL 27021

AMCA 540 & 550 listed

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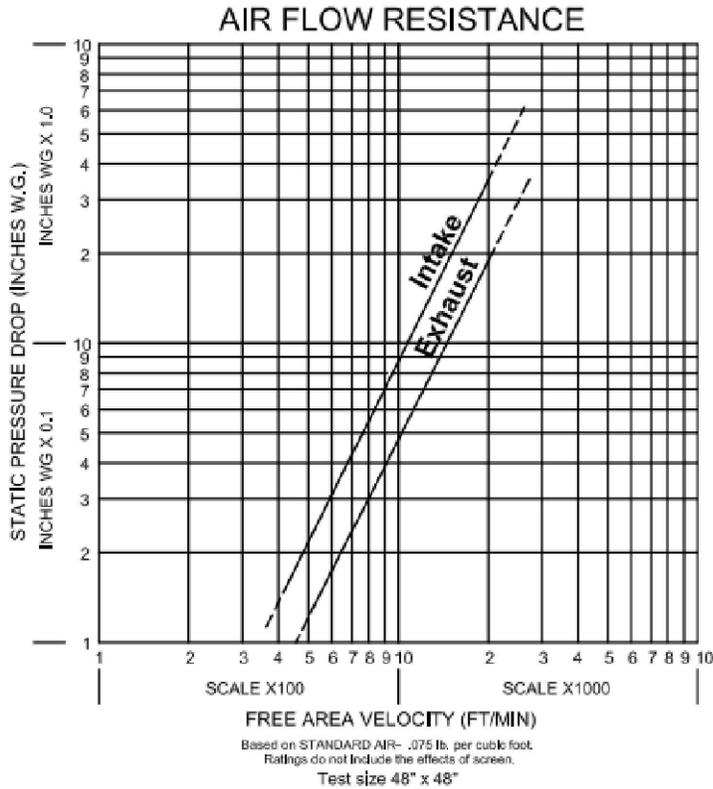


FLANGE ADAPTER OPTION

GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

D-HV-6 LOUVER PERFORMANCE DATA

PRESSURE DROP (BASED ON 48" X 48" LOUVER)



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_____ CFM / _____ FPM = _____ SQFT

AIR FLOW VOLUME FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

Louver Height Inches	D-HV-6 FREE AREA IN SQ. FT.											Louver Height Inches
	Width - Inches											
	12	18	24	30	36	42	48	54	60	66	72	
12	0.33	0.53	0.72	0.92	1.11	1.31	1.50	1.70	1.89	2.09	2.29	12
18	0.55	0.87	1.20	1.52	1.84	2.17	2.49	2.82	3.14	3.46	3.79	18
24	0.77	1.22	1.67	2.12	2.58	3.03	3.48	3.93	4.38	4.84	5.29	24
30	0.98	1.57	2.15	2.73	3.31	3.89	4.47	5.05	5.63	6.21	6.79	30
36	1.20	1.91	2.62	3.33	4.04	4.75	5.46	6.16	6.87	7.58	8.29	36
42	1.42	2.26	3.09	3.93	4.77	5.61	6.44	7.28	8.12	8.95	9.79	42
48	1.64	2.60	3.57	4.53	5.50	6.47	7.44	8.40	9.36	10.33	11.29	48
54	1.86	2.95	4.04	5.14	6.23	7.32	8.42	9.51	10.61	11.70	12.79	54
60	2.07	3.30	4.52	5.74	6.96	8.18	9.41	10.63	11.85	13.07	14.29	60
66	2.29	3.64	4.99	6.34	7.69	9.04	10.39	11.74	13.09	14.44	15.80	66
72	2.51	3.99	5.47	6.95	8.42	9.90	11.38	12.86	14.34	15.82	17.30	72

DCFL-D-6 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6.20" depth, .125" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37 degree angle on 4.64" centers.

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 72"W X 72"H . Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

- 51.50% Free area
- Beginning point of water penetration Lies above 922 fpm

Available Finishes:

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



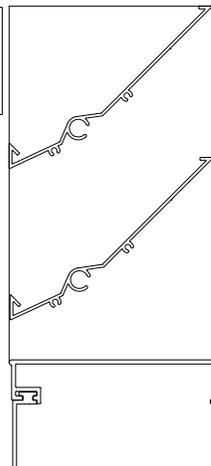
Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration and air performance ratings for rectangular louvers only.



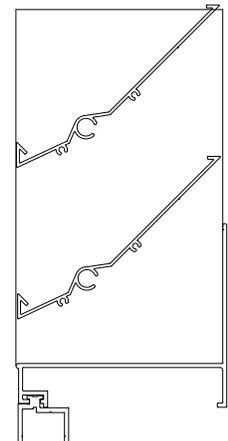
MIAMI-DAD COUNTY, Florida notice of acceptance #: 20-0901.02 (Expires 01/17/26)
Florida building code product approval #: FL3284

Max design pressure rating
 +150, -150 psf
 Large missile impact resistance

Test in accordance with
 AMCA 540



FLANGE ADAPTER OPTION



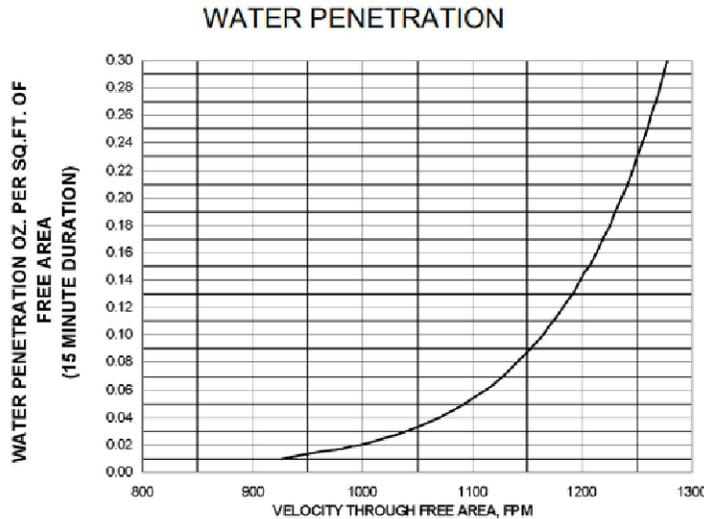
GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

DCFL-D-6 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS



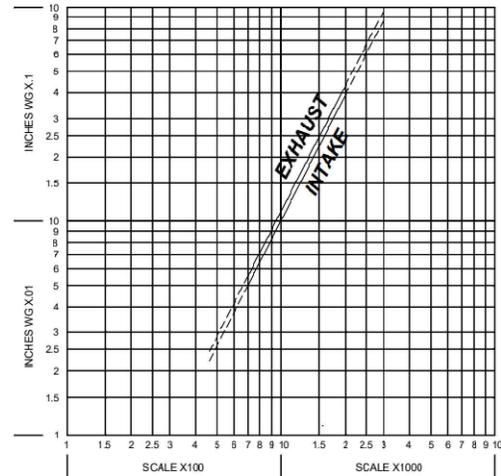
* Beginning point of WATER PENETRATION lies above

922 fpm

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)

AIR FLOW RESISTANCE



PRESSURE DROP
INTAKE & EXHAUST

FREE AREA VELOCITY (FT/MIN)
 Based on STANDARD AIR - .075 lb. per cubic foot.
 Ratings do not include the effects of screen.
 SIZE TESTED: 48" X 48"

_____ CFM /	_____ FPM =	_____ SQFT
<small>AIR FLOW VOLUME</small>	<small>FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION</small>	<small>REQUIRED LOUVER FREE AREA</small>
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		



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MODEL DCFL-D-6 FREE AREA CHART (SQUARE FEET)

Louver Height Inches	Louver Width Inches										Louver Height Inches	
	12	18	24	30	36	42	48	54	60	66		72
12	0.27	0.44	0.61	0.78	0.95	1.11	1.28	1.45	1.62	1.79	1.95	12
18	0.54	0.87	1.20	1.54	1.87	2.20	2.53	2.86	3.20	3.53	3.86	18
24	0.79	1.27	1.76	2.24	2.72	3.21	3.69	4.18	4.66	5.14	5.63	24
30	1.06	1.72	2.37	3.03	3.68	4.34	4.99	5.65	6.30	6.96	7.61	30
36	1.27	2.06	2.84	3.62	4.40	5.19	5.97	6.75	7.54	8.32	9.10	36
42	1.51	2.44	3.37	4.29	5.22	6.15	7.08	8.01	8.94	9.86	10.79	42
48	1.82	2.95	4.07	5.19	6.31	7.43	8.24	9.68	10.80	11.92	13.04	48
54	1.99	3.22	4.45	5.68	6.90	8.13	9.36	10.59	11.81	13.04	14.27	54
60	2.24	3.62	5.00	6.39	7.77	9.15	10.53	11.91	13.29	14.67	16.05	60
66	2.50	4.05	5.59	7.13	8.67	10.21	11.75	13.29	14.83	16.37	17.92	66
72	2.72	4.40	6.07	7.75	9.42	11.10	12.77	14.45	16.12	17.80	19.47	72

7WDRL STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 7" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.068 nominal wall thickness, blades positioned on 3.75" centers.

Birdscreen: 1/2" X 0.063 intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

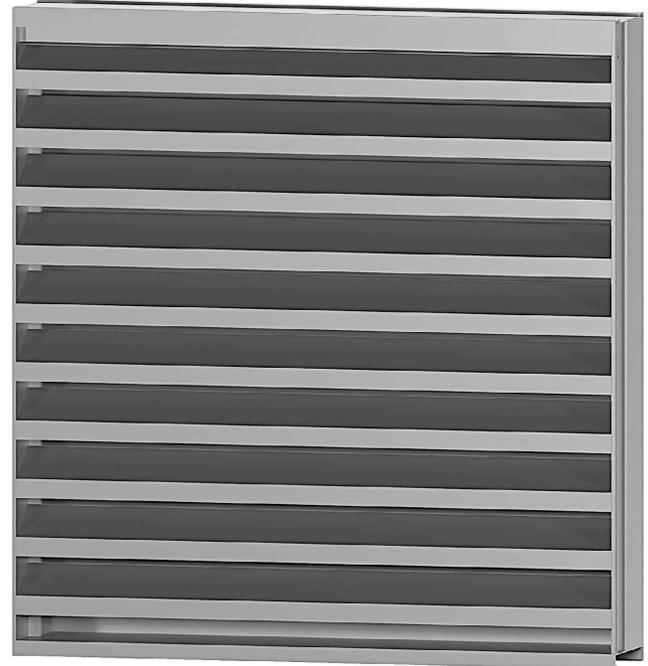
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

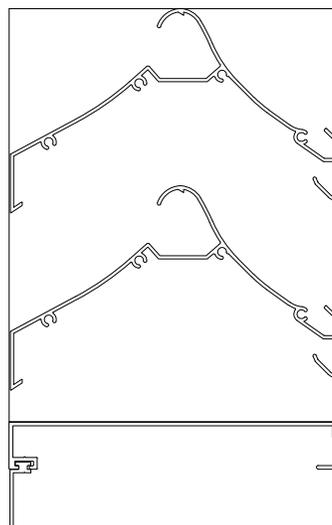
- 47.31% Free area
- Wind Driven Rain "A" Rating

Available Finishes:

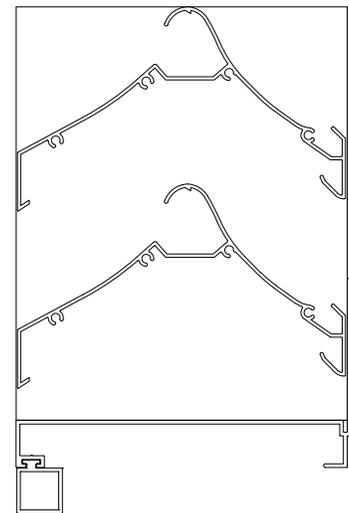
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

7WDRL LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	197	2125	197	98	B	3
29	3	393	4244	394	95.5	B	3

Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

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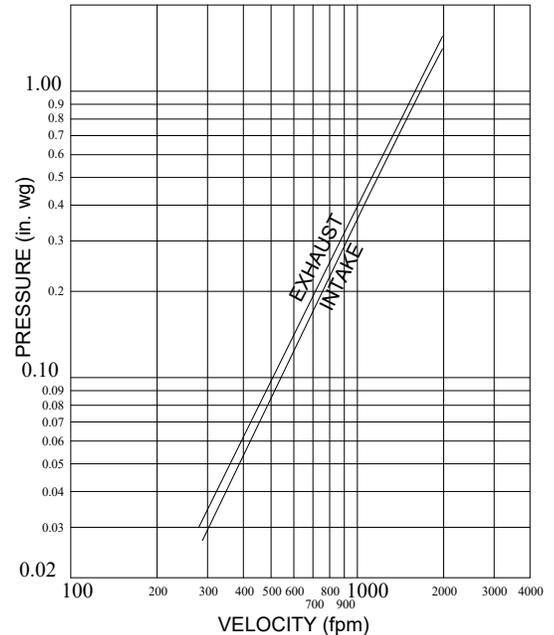


7WDRL FREE AREA CHART
 LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.18	0.29	0.40	0.52	0.63	0.74	0.85	0.97	1.08	1.19	1.30	1.42	1.53	1.64	1.76	1.87	1.98	2.09	2.21
18	0.42	0.68	0.95	1.21	1.48	1.74	2.00	2.27	2.53	2.80	3.06	3.33	3.59	3.86	4.12	4.38	4.65	4.91	5.18
24	0.61	1.00	1.39	1.78	2.17	2.55	2.94	3.33	3.72	4.11	4.49	4.88	5.27	5.66	6.05	6.43	6.82	7.21	7.60
30	0.90	1.47	2.04	2.61	3.19	3.76	4.33	4.90	5.47	6.04	6.61	7.18	7.76	8.33	8.90	9.47	10.04	10.61	11.18
36	1.09	1.79	2.48	3.17	3.86	4.56	5.25	5.94	6.63	7.33	8.02	8.71	9.40	10.10	10.79	11.48	12.17	12.87	13.56
42	1.34	2.18	3.03	3.88	4.73	5.57	6.42	7.27	8.12	8.96	9.81	10.66	11.50	12.35	13.20	14.05	14.89	15.74	16.59
48	1.58	2.58	3.57	4.57	5.57	6.57	7.57	8.57	9.57	10.57	11.57	12.57	13.57	14.57	15.56	16.56	17.56	18.56	19.56
54	1.77	2.89	4.02	5.14	6.26	7.39	8.51	9.63	10.75	11.88	13.00	14.12	15.25	16.37	17.49	18.62	19.74	20.86	21.98
60	2.06	3.37	4.67	5.98	7.28	8.59	9.90	11.20	12.51	13.81	15.12	16.42	17.73	19.04	20.34	21.65	22.95	24.26	25.57
66	2.25	3.68	5.11	6.53	7.96	9.39	10.81	12.24	13.67	15.10	16.52	17.95	19.38	20.80	22.23	23.66	25.08	26.51	27.94
72	2.50	4.08	5.66	7.24	8.82	10.41	11.99	13.57	15.15	16.73	18.32	19.90	21.48	23.06	24.65	26.23	27.81	29.39	30.97
78	2.74	4.47	6.20	7.94	9.67	11.40	13.14	14.87	16.61	18.34	20.07	21.81	23.54	25.28	27.01	28.74	30.48	32.21	33.94
84	3.08	5.02	6.97	8.92	10.87	12.82	14.77	16.72	18.67	20.62	22.57	24.52	26.47	28.42	30.37	32.32	34.26	36.21	38.16
90	3.22	5.26	7.30	9.34	11.38	13.42	15.46	17.50	19.54	21.58	23.62	25.66	27.71	29.75	31.79	33.83	35.87	37.91	39.95
96	3.41	5.57	7.73	9.90	12.06	14.22	16.38	18.54	20.71	22.87	25.03	27.19	29.35	31.52	33.68	35.84	38.00	40.16	42.33
102	3.65	5.97	8.29	10.60	12.92	15.24	17.55	19.87	22.19	24.50	26.82	29.14	31.45	33.77	36.09	38.40	40.72	43.04	45.35
108	3.89	6.36	8.83	11.30	13.77	16.24	18.71	21.17	23.64	26.11	28.58	31.05	33.52	35.98	38.45	40.92	43.39	45.86	48.33
114	4.09	6.68	9.27	11.87	14.46	17.05	19.64	22.23	24.83	27.42	30.01	32.60	35.20	37.79	40.38	42.97	45.56	48.16	50.75
120	4.38	7.15	9.93	12.70	15.48	18.25	21.03	23.80	26.58	29.35	32.13	34.91	37.68	40.46	43.23	46.01	48.78	51.56	54.33

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} / \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

7WDRL-V STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 7" depth, 0.081" nominal wall thickness.

Front Blade: 6063-T6 extruded aluminum, 0.068" nominal wall thickness, blades positioned on 3.75" centers.

Rear Blade: 6063-T6 extruded aluminum, 0.080" nominal wall thickness, blades positioned on 1.50" centers

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

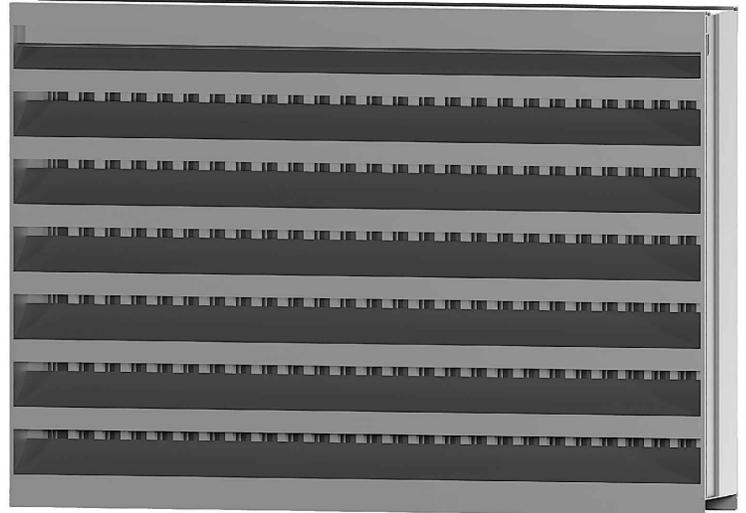
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

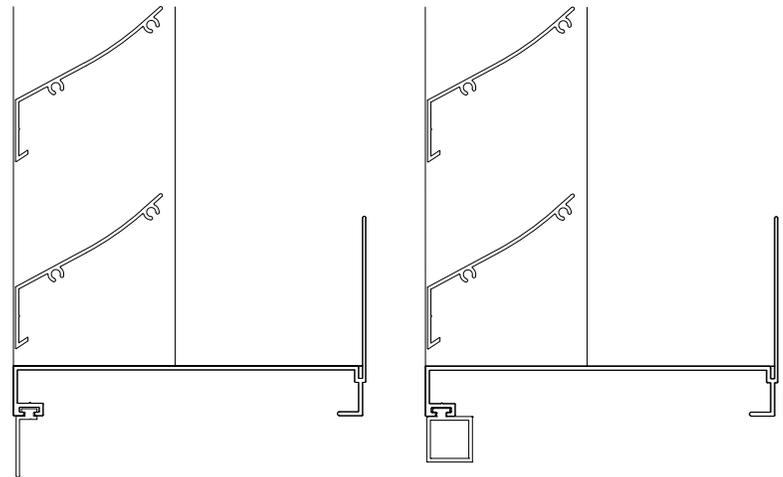
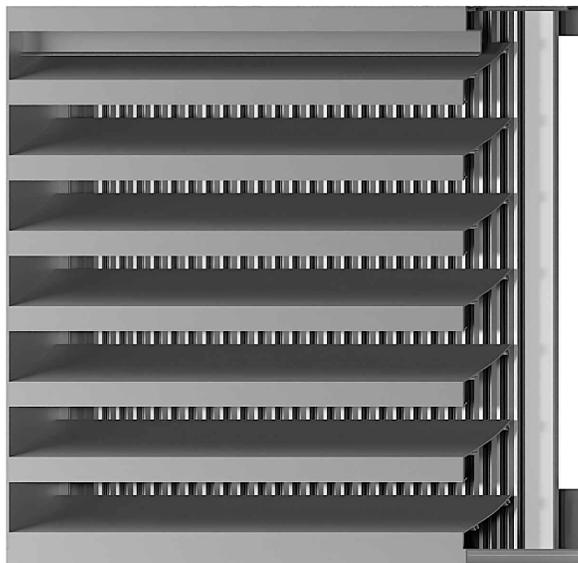
- 47.31% Free area
- Wind Driven Rain "A" Rating

Available Finishes:

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION

GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

7WDRL-V LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

(BASED ON 39.375" X 39.375" LOUVER)

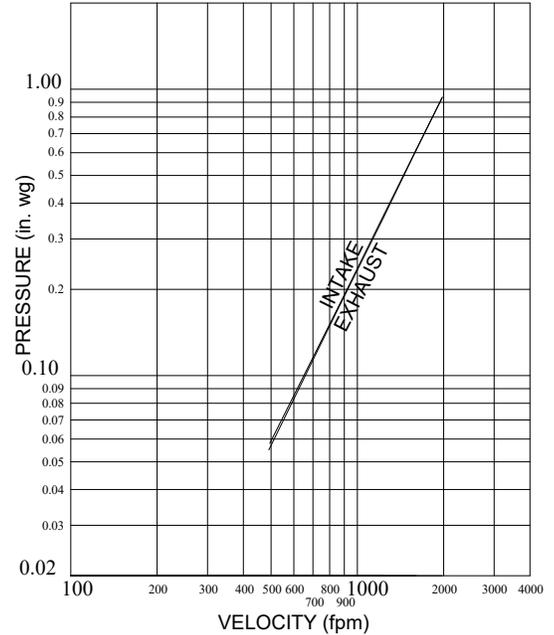
Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	777	8371	1694	99.3	A	3
29	3	990	10655	2158	95.2	B	3
50	8	564	6074	1229	99.5	A	3
50	8	782	8423	1705	97.7	B	3

Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

* Beginning point of WATER PENETRATION lies above
947.6 fpm

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



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7WDRL-V FREE AREA CHART
 LOUVER WIDTH (IN)

$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} / \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

LOUVER HEIGHT (IN)	LOUVER WIDTH (IN)																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.27	0.45	0.64	0.82	1.00	1.19	1.37	1.55	1.74	1.92	2.10	2.29	2.47	2.65	2.84	3.02	3.20	3.39	3.57
18	0.46	0.78	1.10	1.41	1.73	2.05	2.36	2.68	3.00	3.31	3.63	3.95	4.26	4.58	4.90	5.21	5.53	5.85	6.16
24	0.66	1.11	1.56	2.01	2.46	2.91	3.36	3.81	4.26	4.71	5.16	5.61	6.06	6.51	6.96	7.41	7.86	8.31	8.76
30	0.85	1.44	2.02	2.60	3.19	3.77	4.35	4.94	5.52	6.10	6.69	7.27	7.85	8.44	9.02	9.60	10.19	10.77	11.35
36	1.05	1.77	2.48	3.20	3.92	4.63	5.35	6.07	6.78	7.50	8.22	8.93	9.65	10.37	11.08	11.80	12.52	13.23	13.95
42	1.25	2.10	2.95	3.80	4.65	5.50	6.35	7.20	8.05	8.90	9.75	10.60	11.45	12.30	13.15	14.00	14.85	15.70	16.55
48	1.44	2.42	3.41	4.39	5.37	6.36	7.34	8.32	9.31	10.29	11.27	12.26	13.24	14.22	15.21	16.19	17.17	18.16	19.14
54	1.64	2.75	3.88	4.99	6.10	7.22	8.34	9.45	10.57	11.69	12.80	13.92	15.04	16.15	17.27	18.39	19.50	20.62	21.74
60	1.83	3.08	4.33	5.58	6.83	8.08	9.33	10.58	11.83	13.08	14.33	15.58	16.83	18.08	19.33	20.58	21.83	23.08	24.33
66	2.03	3.41	4.79	6.18	7.56	8.94	10.33	11.71	13.09	14.48	15.86	17.24	18.63	20.01	21.39	22.78	24.16	25.54	26.93
72	2.22	3.74	5.26	6.77	8.29	9.81	11.32	12.84	14.36	15.87	17.39	18.91	20.42	21.94	23.46	24.97	26.49	28.01	29.52
78	2.42	4.07	5.72	7.37	9.02	10.67	12.32	13.97	15.62	17.27	18.92	20.57	22.22	23.87	25.52	27.17	28.82	30.47	32.12
84	2.61	4.40	6.18	7.96	9.75	11.53	13.31	15.10	16.88	18.66	20.45	22.23	24.01	25.80	27.58	29.36	31.15	32.93	34.71
90	2.81	4.73	6.64	8.56	10.48	12.39	14.31	16.23	18.14	20.06	21.98	23.89	25.81	27.73	29.64	31.56	33.48	35.39	37.31
96	3.00	5.05	7.10	9.15	11.20	13.25	15.30	17.35	19.40	21.45	23.50	25.55	27.60	29.65	31.70	33.75	35.80	37.85	39.90
102	3.20	5.38	7.57	9.75	11.93	14.12	16.30	18.48	20.67	22.85	25.03	27.22	29.40	31.58	33.77	35.95	38.13	40.32	42.50
108	3.40	5.71	8.03	10.35	12.66	14.98	17.30	19.61	21.93	24.25	26.56	28.88	31.20	33.51	35.83	38.15	40.46	42.78	45.10
114	3.59	6.04	8.49	10.94	13.39	15.84	18.29	20.74	23.19	25.64	28.09	30.54	32.99	35.44	37.89	40.34	42.79	45.24	47.69
120	3.79	6.37	8.95	11.54	14.12	16.70	19.29	21.87	24.45	27.04	29.62	32.20	34.79	37.37	39.95	42.54	45.12	47.70	50.29

APXS7 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 7" depth, 0.080" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.080" nominal wall thickness, blades placed on 2.188" centers.

Birdscreen: 1/2" x 0.063" intercrimped aluminum mesh in removable frame.

Finish: mill

Minimum size: 12"w x 12"h

maximum single section: 120"W x 84"H or 84"W x 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

OPTIONS:

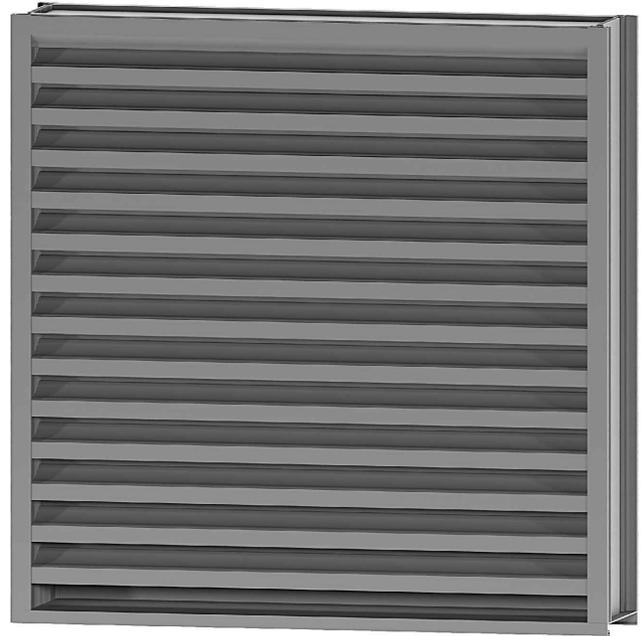
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

PERFORMANCE:

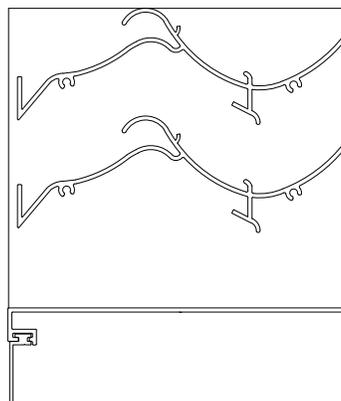
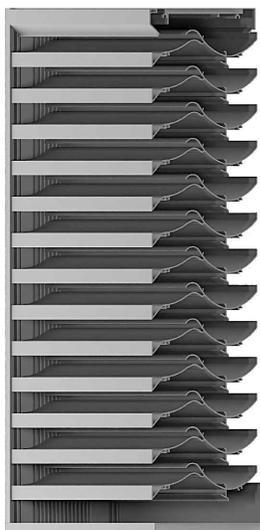
- 44.56% free area
- wind driven rain Class A
- Beginning point of water penetration lies above 1250 fpm

AVAILABLE FINISHES:

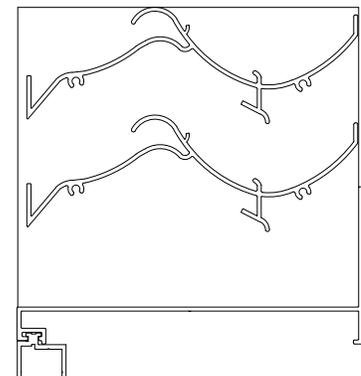
- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize



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FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

APXS7 LOUVER PERFORMANCE DATA

Test size 1m x 1m (39"x39") core
 41-5/8"w x 41-7/8"h Nominal (1.057m x 1.063m)

Wind Driven Rain Penetration Classes	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

* Discharge Loss Intake		
Wind Velocity (mph)	Class	
	Intake	Exhaust
29	2	3
50	2	3

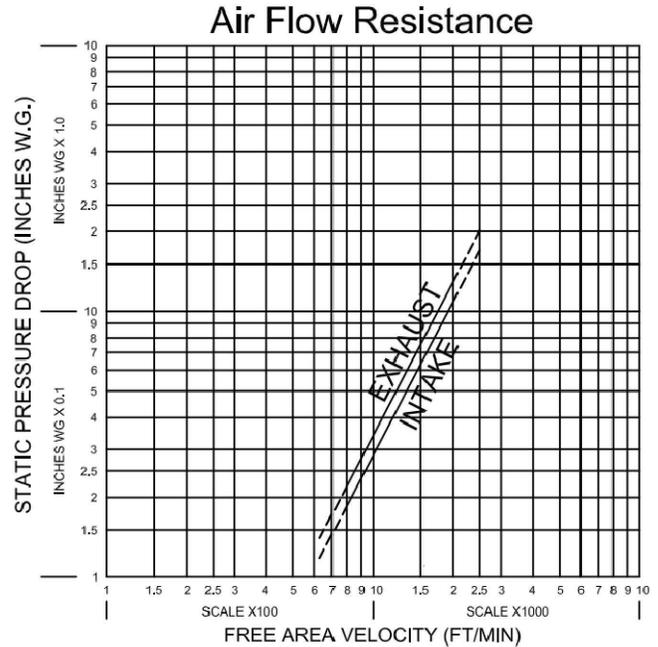
* Discharge loss coefficient is the theoretical air flow of an opening divided by the actual flow rate of a louver the same size.

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	.0199 and below

(the higher the coefficient, the less resistance to airflow.)

75 mm/h (3 in/h) Rainfall & 13 m/s (29 mph) Wind Velocity				
Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness	AMCA Effectiveness Class
489 (2.5)	5264 (2.48)	957 (4.9)	100.0	A
591 (3.0)	6362 (3.00)	1157 (5.9)	99.9	A
688 (3.5)	7406 (3.50)	1346 (6.8)	99.4	A
788 (4.0)	8482 (4.00)	1542 (7.8)	98.1	B

202.4 mm/h (8 in/h) Rainfall & 22 m/s (50 mph) Wind Velocity				
Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness	AMCA Effectiveness Class
407 (2.1)	4381 (2.07)	797 (4.0)	99.9	A
488 (2.5)	5253 (2.48)	955 (4.9)	99.9	A
590 (3.0)	6351 (3.00)	1155 (5.9)	99.3	A
685 (3.5)	7373 (3.48)	1341 (6.8)	95.9	B



* Beginning point of WATER PENETRATION lies above

1250 fpm

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Height - inches	Width - inches																			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
12	0.25	0.41	0.57	0.72	0.88	1.04	1.20	1.35	1.51	1.67	1.83	1.98	2.14	2.30	2.46	2.61	2.77	2.93	3.09	12
18	0.46	0.74	1.03	1.31	1.60	1.88	2.17	2.46	2.74	3.03	3.31	3.60	3.88	4.17	4.45	4.74	5.03	5.31	5.60	18
24	0.68	1.11	1.54	1.97	2.39	2.82	3.25	3.67	4.10	4.53	4.96	5.38	5.81	6.24	6.67	7.09	7.52	7.95	8.37	24
30	0.89	1.44	1.99	2.55	3.10	3.65	4.21	4.76	5.31	5.86	6.42	6.97	7.52	8.08	8.63	9.18	9.74	10.29	10.84	30
36	1.09	1.77	2.45	3.12	3.80	4.48	5.16	5.84	6.52	7.20	7.88	8.56	9.24	9.92	10.59	11.27	11.95	12.63	13.31	36
42	1.30	2.10	2.91	3.72	4.53	5.34	6.15	6.96	7.77	8.58	9.38	10.19	11.00	11.81	12.62	13.43	14.24	15.05	15.86	42
48	1.52	2.47	3.42	4.37	5.32	6.27	7.13	8.17	9.12	10.07	11.02	11.97	12.92	13.87	14.82	15.77	16.72	17.67	18.62	48
54	1.72	2.80	3.87	4.95	6.02	7.09	8.17	9.24	10.32	11.39	12.47	13.54	14.62	15.69	16.77	17.84	18.92	19.99	21.07	54
60	1.92	3.12	4.32	5.53	6.73	7.93	9.13	10.33	11.53	12.73	13.93	15.13	16.33	17.53	18.73	19.93	21.14	22.34	23.54	60
66	2.13	3.47	4.80	6.13	7.46	8.80	10.13	11.46	12.79	14.12	15.46	16.79	18.12	19.45	20.79	22.12	23.45	24.78	26.12	66
72	2.36	3.83	5.30	6.77	8.24	9.71	11.19	12.66	14.13	15.60	17.07	18.54	20.02	21.49	22.96	24.43	25.90	27.37	28.85	72
78	2.56	4.16	5.75	7.35	8.95	10.55	12.15	13.74	15.34	16.94	18.54	20.14	21.73	23.33	24.93	26.53	28.12	29.72	31.32	78
84	2.76	4.48	6.20	7.93	9.65	11.37	13.09	14.82	16.54	18.26	19.98	21.71	23.43	25.15	26.87	28.59	30.32	32.04	33.76	84
90	2.97	4.83	6.68	8.54	10.39	12.25	14.11	15.96	17.82	19.67	21.53	23.38	25.24							
96	3.19	5.19	7.18	9.17	11.17	13.16	15.15	17.15	19.14	21.14	23.13	25.12	27.12							
102	3.39	5.51	7.63	9.74	11.86	13.98	16.10	18.21	20.33	22.45	24.57	26.68	28.80							
108	3.59	5.84	8.08	10.33	12.57	14.81	17.06	19.30	21.55	23.79	26.04	28.28	30.52							
114	3.81	6.19	8.57	10.95	13.33	15.71	18.08	20.46	22.84	25.22	27.60	29.98	32.36							
120	4.03	6.55	9.07	11.58	14.10	16.62	19.13	21.65	24.17	26.69	29.20	31.72	34.24							

D-HV-9 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Front Frame: 6063-T6 extruded aluminum, 4" depth, .081" nominal wall thickness.

Rear Frame: 6063-T6 extruded aluminum, 5" depth, .081" nominal wall thickness

Front Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 40 degree angle on 4.625" centers.

Rear Blade : 6063-T6 extruded aluminum, 0.063" positioned vertically on 1.50" centers

Birdscreen: 1/2" X 0.063" intercrimped aluminum mesh in removable frame.

Finish: Mill

Minimum size: 12"W X 12"H

Maximum Single Section: 72"W X 120"H . Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

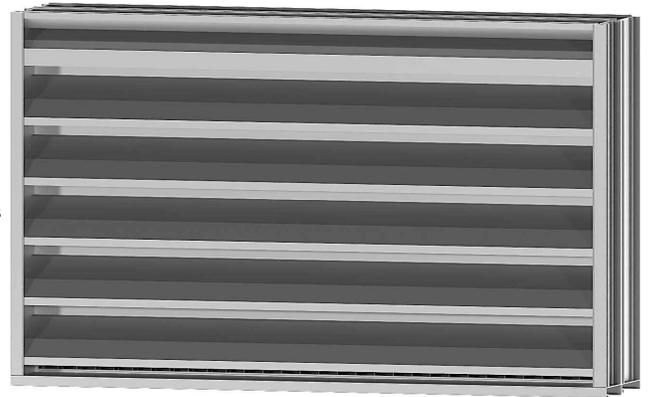
- Extended sill
- Insect screen and bird screen (various options of screen types)
- Filter racks
- Security bars
- Blank-off, alum., non-insulated, sheet panels with various thickness options
- blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

Performance:

- 47.06% Free area
- AMCA 540 & 550 Rated

Available Finishes:

- Kynar (2 coat & 3 coat)
- Prime coat
- Clear and color anodize

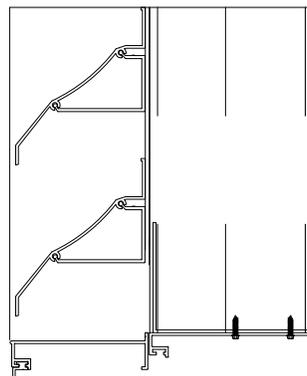
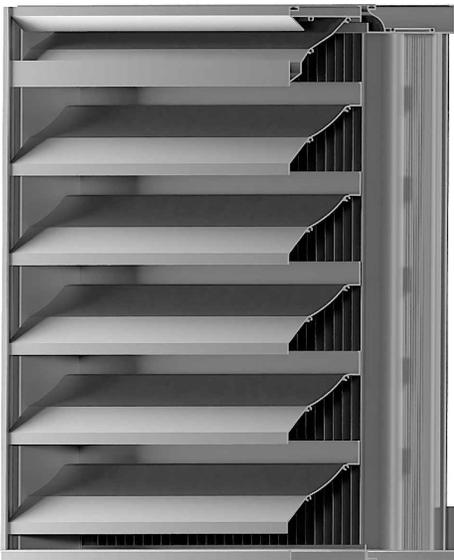
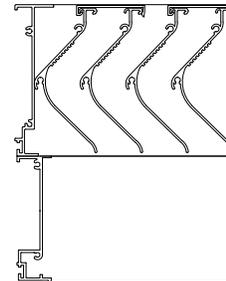


- **AMCA 540 & 550**
- **FLorida Product Approval**
- **Amca 500-L Pressure Drop Test**
- **ASTM E330 & ASTM E1886**

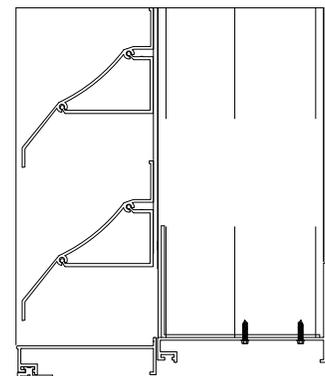
Miami Dade County, Florida Notice of Acceptance#: 21-0216.02

Florida Building Code Product Approval #:38775.1

Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration and air performance ratings for rectangular louvers only.



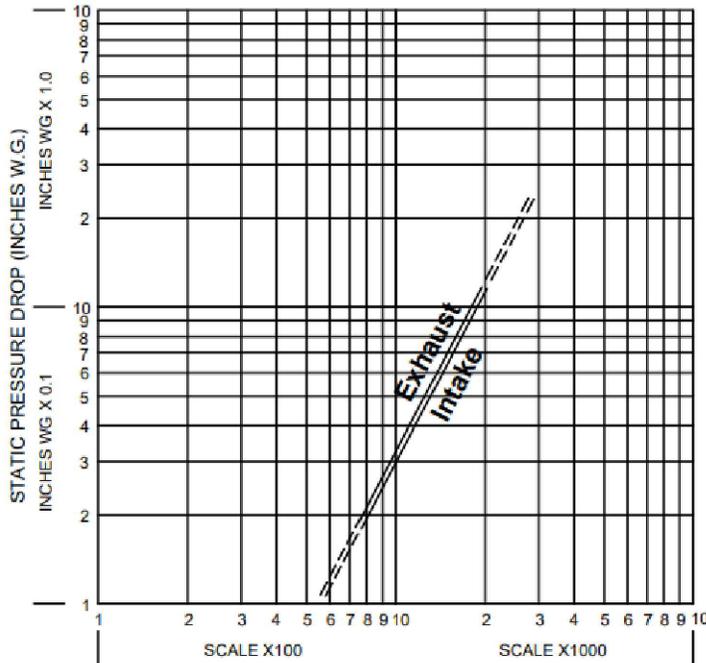
FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
 (OTHER GLAZING OPTIONS AVAILABLE)

D-HV-9 LOUVER PERFORMANCE DATA

PRESSURE DROP (BASED ON 48" X 48" LOUVER)



FREE AREA VELOCITY (FT/MIN)
 Based on STANDARD AIR- .075 lb. per cubic foot.
 Ratings do not include the effects of screen.
 Test size 48" x 48"
 Test Figure 5.5



Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration and air performance ratings for rectangular louvers only.



_____ CFM /	_____ FPM =	_____ SQFT
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		

Louver Height Inches	D-HV-9 FREE AREA IN SQ. FT.										Louver Height Inches	
	Width - Inches											
	12	18	24	30	36	42	48	54	60	66	72	
12	0.30	0.55	0.76	0.96	1.17	1.38	1.59	1.80	2.01	2.21	2.42	12
18	0.59	0.95	1.32	1.68	2.05	2.41	2.77	3.14	3.50	3.86	4.23	18
24	0.75	1.21	1.68	2.14	2.60	3.06	3.52	3.99	4.45	4.91	5.37	24
30	0.99	1.61	2.22	2.83	3.44	4.06	4.67	5.28	5.89	6.51	7.12	30
36	1.22	1.97	2.73	3.48	4.23	4.98	5.73	6.49	7.24	7.99	8.74	36
42	1.47	2.38	3.29	4.20	5.10	6.01	6.92	7.83	8.73	9.64	10.55	42
48	1.60	2.59	3.58	4.57	5.55	6.54	7.53	8.51	9.50	10.49	11.47	48
54	1.94	3.13	4.32	5.51	6.71	7.90	9.09	10.28	11.48	12.67	13.86	54
60	2.16	3.50	4.83	6.16	7.49	8.83	10.16	11.49	12.82	14.15	15.49	60
66	2.42	3.90	5.39	6.88	8.37	9.85	11.34	12.83	14.32	15.80	17.29	66
72	2.64	4.26	5.88	7.50	9.12	10.75	12.37	13.99	15.61	17.23	18.86	72
78	2.88	4.65	6.42	8.20	9.97	11.74	13.51	15.29	17.06	18.83	20.60	78
84	3.11	5.02	6.93	8.84	10.76	12.67	14.58	16.49	18.40	20.32	22.23	84
90	3.36	5.43	7.49	9.56	11.63	13.70	15.76	17.83	19.90	21.97	24.03	90
96	3.58	5.78	7.98	10.18	12.39	14.59	16.79	18.99	21.20	23.40	25.60	96
102	3.82	6.17	8.53	10.88	13.23	15.58	17.94	20.29	22.64	24.99	27.35	102
108	4.05	6.54	9.03	11.53	14.02	16.51	19.00	21.49	23.99	26.48	28.97	108
114	4.30	6.95	9.60	12.24	14.89	17.54	20.19	22.83	25.48	28.13	30.78	114
120	4.52	7.30	10.09	12.87	15.65	18.43	21.21	24.00	26.78	29.56	32.34	120